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**ENVIRONMENT DIRECTORATE
JOINT MEETING OF THE CHEMICALS COMMITTEE AND
THE WORKING PARTY ON CHEMICALS, PESTICIDES AND BIOTECHNOLOGY**

Cancels & replaces the same document of 30 October 2015

**INTEGRATED SUMMARY REPORT: Validation of Two Binding Assays Using Human Recombinant
Estrogen Receptor Alpha (hrERa)**

**Series on Testing & Assessment
No. 226**

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OECD Environment, Health and Safety Publications

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This document includes appendices B to F of the report.



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Paris 2015

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FOREWORD

This document is Annex 1 of the Integrated Summary Report (ISR) of the Validation of two binding assays using human recombinant estrogen receptor alpha (hrER α). It includes appendices B to F of the report.

This document is published under the responsibility of the Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology of the OECD.



ICCVAM Evaluation of *In Vitro* Test Methods for Detecting Potential Endocrine Disruptors:

Estrogen Receptor and Androgen Receptor Binding and Transcriptional Activation Assays

Interagency Coordinating Committee on the Validation of Alternative Methods
(ICCVAM)

National Toxicology Program (NTP) Interagency Center for the Evaluation of
Alternative Toxicological Methods (NICEATM)

National Institute of Environmental Health Sciences
National Institutes of Health
U.S. Public Health Service
Department of Health and Human Services

**THE INTERAGENCY COORDINATING COMMITTEE
ON THE VALIDATION OF ALTERNATIVE METHODS
and
THE NTP INTERAGENCY CENTER FOR THE
EVALUATION OF ALTERNATIVE TOXICOLOGICAL METHODS**

The Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) was established in 1997 by the Director of the National Institute of Environmental Health Sciences (NIEHS) to implement NIEHS directives in Public Law 103-43. P.L. 103-43 directed NIEHS to develop and validate new test methods, and to establish criteria and processes for the validation and regulatory acceptance of toxicological testing methods. P. L. 106-545, the ICCVAM Authorization Act of 2000, establishes ICCVAM as a permanent committee. The Committee is composed of representatives from 15 Federal regulatory and research agencies that generate, use, or provide information from toxicity test methods for risk assessment purposes. P.L. 106-545 directs ICCVAM to coordinate technical reviews and evaluations of new, revised, and alternative test methods of interagency interest. ICCVAM also coordinates cross-agency issues relating to development, validation, acceptance, and national/international harmonization of toxicological test methods.

The National Toxicology Program (NTP) Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM) was established in 1998 to provide operational support for the ICCVAM and to collaborate with the ICCVAM to carry out committee-related activities such as test method peer reviews and workshops. NICEATM and ICCVAM coordinate the scientific review of the validation status of proposed methods and provide recommendations regarding their usefulness to appropriate agencies. NICEATM and ICCVAM seek to promote the validation and regulatory acceptance of toxicological test methods that will enhance agencies' abilities to assess risks and make decisions, and that will refine, reduce, and replace animal use. The ultimate goal is to improve public health by gaining the regulatory acceptance of new scientifically valid test methods that are more predictive of human and ecological effects than currently available methods.

Additional Information

Additional information can be found at the ICCVAM/NICEATM Website: <http://iccvam.niehs.nih.gov> and in the publication: *Validation and Regulatory Acceptance of Toxicological Test Methods, a Report of the ad hoc Interagency Coordinating Committee on the Validation of Alternative Methods* (NIH Publication No. 97-3981), or you may contact the Center at telephone 919-541-3398, or by e-mail at iccvam@niehs.nih.gov. Specific questions about ICCVAM and the Center can be directed to the Director of NICEATM:

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ICCVAM Agencies and Programs

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Consumer Product Safety Commission
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Department of Defense
Department of Energy
Department of Interior
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Environmental Protection Agency

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On the Cover

The ICCVAM/NICEATM graphic symbolizes the important role of new and alternative toxicological methods in protecting and advancing the health of people, animals, and our environment.

**ICCVAM Evaluation of *In Vitro* Test Methods for
Detecting Potential Endocrine Disruptors:**

**Estrogen Receptor and Androgen Receptor Binding and
Transcriptional Activation Assays**

**Interagency Coordinating Committee on the Validation of
Alternative Methods (ICCVAM)**

**National Toxicology Program (NTP) Interagency Center for the
Evaluation of Alternative Toxicological Methods (NICEATM)**

**National Toxicology Program
P.O. Box 12233
Research Triangle Park, NC 27709**

**May 2003
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**National Institute of Environmental Health Sciences -
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U.S. Public Health Service
Department of Health and Human Services**

Executive Summary

Endocrine disrupting substances are defined as chemicals that interfere with the normal function of hormones, either during development or during the life of an animal, resulting in abnormal development, growth, or reproduction (Ankley et al. 1998; Combes 2000; EPA 1998; Gray et al. 1998). Concern regarding these substances arises from observations of reproductive and developmental abnormalities in animal populations exposed to high levels of certain persistent pollutants in the environment. In addition, human health consequences including increases in the incidence of birth defects, cancers in hormonally-receptive tissues, and decreased fertility have been attributed to exposure of humans to endocrine disruptors. In response to these concerns, Congress directed the U.S. Environmental Protection Agency (EPA) in 1996 to validate and implement a screening and testing program to evaluate the potential of these substances to cause hormone-related health effects (Public Law [P.L.] 104-170). Based on advice from the EPA Endocrine Disruptor Screening and Testing Advisory Committee (EDSTAC), EPA proposed the Endocrine Disruptor Screening Program (EDSP) (EPA 1998). The EDSP consists of a Tier 1 screening battery of *in vitro* and *in vivo* assays that is designed to identify substances capable of interacting with the endocrine system. Tier 2 of the EDSP is a battery of *in vivo* assays that provides detailed information on concentration response relationships and specific abnormal effects. Based on a weight-of-evidence evaluation of the results from the Tier 1 screening battery, Tier 2 *in vivo* tests are conducted. Included among the proposed Tier 1 *in vitro* assays are estrogen receptor (ER) and androgen receptor (AR) binding and transcriptional activation (TA) assays.

In April 2000, EPA asked the Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) to evaluate the validation status of *in vitro* ER and AR binding and TA assays. ICCVAM, which is charged by law (P.L. 106-545) to evaluate the scientific validity of new, revised, and alternative test methods proposed for specific regulatory uses, agreed to evaluate the assays based on their potential interagency applicability and public health significance. Because a large number of *in vitro* methods were known to exist, it was expected that at least some of these would have been adequately validated and could be rapidly included in the EDSP following a review of existing data and verification of their validity. The EPA also asked for the development of minimum performance standards that could be used to define acceptable *in vitro* ER and AR binding and TA assays. It was envisioned that these standards would be based on the performance of validated *in vitro* ER- and AR-based assays.

The National Toxicology Program (NTP) Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM) subsequently compiled all available relevant data and information on the *in vitro* methods of interest. A comprehensive review of these data determined that there were no adequately validated *in vitro* ER- or AR-based assays, and therefore, no assays could serve as the basis for establishing minimum performance standards. It was also discovered that there was little consistency among available protocols, and that no assay protocol was adequately detailed and standardized. Minimum procedural standards were therefore proposed that should be incorporated in the standardized protocols for each of the four types of assays. These minimum procedural standards include critical elements such as

dose selection criteria, number of replicates per test, appropriate positive and negative controls, and criteria for an acceptable test.

Four draft Background Review Documents (BRDs) were developed and organized according to published guidelines for submission of test methods to ICCVAM (ICCVAM 1999). Each BRD (NIEHS 2002a, 2002b, 2002c, 2002d) contained:

- a description of the types of test methods used to measure the endpoints of interest and the available data substantiating their scientific validity;
- published and submitted data on substances tested in the test methods being considered;
- an evaluation of the comparative reliability and performance of the test methods being considered;
- specific protocols for test methods provided by interested scientists;
- a prioritized list of test methods recommended for validation;
- proposed minimum procedural standards for the types of test methods being considered;
- a list of substances proposed for future validation studies.

The final *in vitro* ER binding BRD summarized and evaluated data on 638 different substances tested at least once in one or more of 14 different test methods. The *in vitro* ER TA BRD summarized and evaluated data on 698 different substances tested at least once in one or more of 95 different test methods. The *in vitro* AR binding BRD summarized and evaluated data on 108 different substances tested at least once in one or more of 11 different test methods. The *in vitro* AR TA BRD summarized and evaluated data on 145 different substances tested at least once in one or more of 18 different test methods.

ICCVAM asked its Endocrine Disruptor Working Group (EDWG) to assist NICEATM with the technical evaluation of the four types of *in vitro* endocrine disruptor assays. The EDWG, which is comprised of knowledgeable scientists from participating ICCVAM agencies, was charged with:

- identifying and recommending scientists for the Expert Panel;
- reviewing the four draft BRDs for completeness and accuracy;
- developing questions for the Expert Panel to consider during their deliberations;
- developing draft ICCVAM recommendations based on the conclusions and recommendations of the Expert Panel.

An Expert Panel consisting of 24 scientists was selected based on advice from the EDWG. The expertise of the members included relevant areas such as reproductive toxicology, androgen and/or estrogen receptor binding and TA assays, validation of alternative *in vitro* methods, ecotoxicology, and biostatistics. The Expert Panel members were from the United States, the United Kingdom, Canada, Japan, and Denmark, and included scientists from industry, academia, and government.

The Expert Panel was charged with reviewing the information and recommendations provided in the four draft BRDs, and developing conclusions and recommendations on the following:

- specific test methods that should undergo further evaluation in validation studies, and their relative priority for evaluation;
- the adequacy of the proposed minimum procedural standards;
- the adequacy of protocols for specific test methods recommended for validation;
- the adequacy and appropriateness of substances proposed for validation studies.

The Expert Panel met in public session on May 21-22, 2002, in Research Triangle Park, North Carolina. The Expert Panel presented the evaluations, conclusions, and recommendations for each of the four types of assays. Opportunities for public comment were provided during the meeting. After consideration of the public comments, the Expert Panel reached consensus on each of its recommendations. The Expert Panel's written evaluations and recommendations were consolidated into an independent report, which is included in this document as **Appendix A**.

Following the Expert Panel meeting, the four draft BRDs were revised to address corrections and omissions noted by the Expert Panel and published as final versions, which are available on the ICCVAM/NICEATM website <http://iccvam.niehs.nih.gov/methods/endocrine.htm>. Based on the recommendations of the Expert Panel, the EDWG, with the assistance of NICEATM, developed draft minimum procedural standards and lists of proposed substances for validation of ER and AR binding and TA assays.

In October 2002, the final report of the Expert Panel and the EDWG's draft list of proposed substances were made available to the public for comment (67 FR 204: 64902-64903, October 22, 2002). Following their review of the public comments, the EDWG and ICCVAM finalized their recommendations on minimum procedural standards, test methods for future validation, and substances that should be used to standardize and validate the test methods. This information is provided in this report. The final Expert Panel report, public comments, and other relevant documents are appended to this report, and are available also on the ICCVAM/NICEATM website <http://iccvam.niehs.nih.gov/methods/endocrine.htm>.

Recommendations

ICCVAM concurs with the recommendations of the Expert Panel with regard to the four different types of assays. The major recommendations, organized by assay type, are:

In Vitro ER Binding Assays

- Recombinant rat or human ERs (α and β subtypes) should be given the highest priority for further test method standardization, prevalidation, and validation. Recombinant receptors are superior to crude cytosolic preparations because they can be prepared and distributed as standardized products with significantly less contamination. This will result in greater reproducibility and facilitate comparison of results across laboratories. To screen for possible ecological effects, recombinant receptors from wildlife are considered to be potentially more relevant and their use should be evaluated.
- Although it would be advantageous to use nonradioactive methods such as fluorescent polarization to assess ER binding, this method has not been widely used and specialized equipment is required. However, once a test method using recombinant ER proteins has been validated, there should be an effort to optimize a fluorescence-based method to replace the use of radioactivity.
- *In vitro* ER binding assay protocols should be standardized to incorporate the recommended minimum procedural standards (see **Section 3.1**). Exceptions should be justified with scientific rationale. Following protocol standardization, prevalidation studies should be conducted to optimize a reproducible protocol. Once this has been achieved, validation studies to assess the reliability and comparative performance of the test method should be conducted.

- Proposed *in vitro* ER binding test methods should be evaluated in validation studies using, at a minimum, the 53 substances listed in **Section 3.2**. This list includes substances that cover a range of activities, from negative to weakly positive to strongly positive, with 40 (75%) positive and presumed positive and 13 (25%) negative and presumed negative substances. The list also represents a wide range of relevant chemical and product classes (see **Section 2.0**). Following validation studies using the 53 substances, ICCVAM recommends that data should be generated on the remainder of the substances in the list of 78. The additional data will aid in the assessment of the usefulness of an *in vitro* test battery for prioritizing substances for subsequent *in vivo* studies.

***In Vitro* ER TA Assays**

- A comparative study should be conducted to determine whether transiently or stably transfected cell lines are more appropriate for a routine test system. Transiently transfected systems generally have a higher level of responsiveness, while stably transfected cell lines have a lower level of responsiveness but are generally more amenable to high-throughput screening. Such a study should use cell lines with the same ER reporter gene constructs. A third cell line expressing an endogenous ER and transfected with the same reporter construct should be included in this study.
- *In vitro* ER TA assay protocols should be standardized to incorporate the recommended minimum procedural standards (see **Section 4.1**). Exceptions should be justified with scientific rationale. Following protocol standardization, pre-validation studies should be conducted to optimize a reproducible protocol. Once this has been achieved, validation studies to assess the reliability and comparative performance of the protocol should be conducted.
- To facilitate the comparison of *in vitro* ER-based assays, the same minimum list of 53 substances (provided in **Section 4.2**) recommended for ER binding assays should be used in the validation of *in vitro* ER TA agonist and antagonist assays. For ER TA agonism and antagonism assays, 34 (64%) and 11 (21%) of the substances, respectively, are reported to be positive or presumed positive, and 19 (36%) and 42 (79%) of the substances, respectively, are presumed negative. Following validation studies using the 53 substances, ICCVAM recommends that data should be generated on the remainder of the substances included in the list of 78. The additional data will aid in the assessment of the usefulness of an *in vitro* test battery for prioritizing substances for subsequent *in vivo* studies.

***In Vitro* AR Binding Assays**

- A recombinant protein should be used as the source of the AR. Recombinant receptors are superior to crude cytosolic preparations because the recombinant protein can be standardized, which contributes to improved quality control and comparison of results across laboratories. Thus, the highest priority for future research and development efforts should be given to the development of a test method using a recombinant full-length AR protein. Patents on the AR protein have hindered development of this assay.
- *In vitro* AR binding assay protocols should be standardized to incorporate the recommended minimum procedural standards (see **Section 5.1**). Exceptions should be justified with scientific rationale. Following protocol standardization, prevalidation studies should be conducted to optimize a reproducible protocol. Once

this has been achieved, validation studies to assess the reliability and comparative performance of the protocol should be conducted.

- Proposed *in vitro* AR binding assays should be evaluated in validation studies using, at a minimum, the 44 substances listed in **Section 5.2**. This list consists of 33 (75%) positive and presumed positive substances and 11 (25%) presumed negative substances for AR binding. Following validation studies using the 44 substances, ICCVAM recommends that data should be generated on the remainder of the substances included in the list of 78. The additional data will aid in the assessment of the usefulness of an *in vitro* test battery for prioritizing substances for subsequent *in vivo* studies.

***In Vitro* AR TA Assays**

- None of the *in vitro* AR TA assays reviewed by the Expert Panel were considered optimal for assessing AR agonist and antagonist activities. The highest priority for future efforts should be a cell line containing an endogenous AR that is transduced with an adenovirus containing a reporter vector that shows high specificity for the AR. The chosen cell line should not respond to, or have minimal response levels for, the glucocorticoid and progesterone receptors. Because of patent restrictions, it may be necessary that a cell line with an endogenous AR be used for validation. Transduction of a reporter construct in a virus particle is more efficient and reproducible than transfection of a construct.
- *In vitro* AR TA assay protocols should be standardized to incorporate the recommended minimum procedural standards (see **Section 6.1**). Exceptions should be justified with scientific rationale. Following protocol standardization,

prevalidation studies should be conducted to optimize a reproducible protocol. Once this has been achieved, validation studies to assess the reliability and comparative performance of the protocol should be conducted.

- To facilitate *in vitro* AR-based test method comparisons, the same minimum list of 44 substances (provided in **Section 6.2**) recommended for *in vitro* AR binding assays should be used in the validation of *in vitro* AR TA agonist and antagonist assays. For AR TA agonism and antagonism assays, 20 (45%) and 20 (45%) of the substances, respectively, are reported to be positive and presumed positive, and 24 (55%) and 24 (55%) of the substances, respectively, are presumed negative. Following validation studies using the 44 substances, ICCVAM recommends that data should be generated on the remainder of the substances included in the list of 78. The additional data will aid in the assessment of the usefulness of an *in vitro* test battery for prioritizing substances for subsequent *in vivo* studies.

Other Recommendations

ICCVAM agrees with the Expert Panel that the development and validation of *in vitro* ER and AR binding and TA assays should emphasize the use of recombinant-derived proteins. Based on current knowledge and experience, it appears that continuing to use animal-derived ER or AR in *in vitro* endocrine disruptor test methods requires scientific justification. The advantages of using recombinant-derived receptors for binding test methods include:

- Standardized recombinant protein can be prepared and used by multiple laboratories, which will contribute to improved inter- and intra-laboratory reproducibility and an enhanced ability to compare results across laboratories.

- Recombinant-derived receptors avoid the disadvantages of animal-derived receptors, which include:
 - The receptors, particularly the ARs, are unstable in tissue extracts.
 - The cytosolic extracts contain many proteins, including other endogenous steroid receptors that can interfere with the performance of the assay.
 - Animals have to undergo surgery before isolation of the tissue of interest. For AR binding assays, males are castrated, and, for ER binding assays, females undergo an ovariectomy before removal of the requisite tissues and isolation of the respective receptors.
 - Animals need to be killed to obtain either the uterus (ER binding) or prostate (AR binding) glands.
- The inclusion of a metabolic activation system in *in vitro* ER and AR binding and TA assays is not recommended at this time, as the type of metabolic activation system developed will depend on which *in vitro* assays are selected. Available information on the metabolism of the validation substances should be compiled, including the degree to which metabolism is known to alter estrogenic and androgenic activity *in vivo*. Once the importance of metabolic activation in the ability of substances to disrupt endocrine function has been demonstrated, and valid *in vitro* ER and AR binding and TA assays have been identified, appropriate methods for including metabolic activation in the assays can be developed and validated.
- The current analyses for making statistical inferences with *in vitro* endocrine disruptor data require more detailed research and study. Appropriate prevalidation studies should be conducted to generate data necessary for biostatisticians to develop appropriate statistical methods for analyzing binding and TA agonist and antagonist assay data.
- Although these *in vitro* endocrine disruptor assays are proposed as components of a screening test battery where the results will be used in making weight-of-evidence decisions, the predictive value of these *in vitro* assays for estimating *in vivo* responses should be determined. To facilitate this determination, ICCVAM recommends that all 78 substances (see **Section 2.0**) should be evaluated in each *in vitro* assay. It is only through this effort that the performance of the *in vitro* test methods for predicting responses in animals can be evaluated and decisions made as to whether and how *in vitro* assays can reduce or replace animal use. Such data will also be needed to determine the usefulness of the *in vitro* battery for prioritizing substances for further testing.
- A centralized repository of the 78 substances with verified purity should be organized to facilitate future validation studies. The purpose of this repository is to provide a source of coded samples, of known purity, for validation studies. This approach would greatly enhance evaluation of the comparative reliability and performance of different versions of *in vitro* ER and AR binding and TA assays.
- Federal agencies are encouraged to support research and development of new technologies (e.g., genomics) that may provide more accurate assessments and/or advantages in terms of time and cost.

Appendix C: PRISM Fit Parameters for Competitive Binding Data: All Runs Conducted

Cover Sheet, Appendix C

Footnotes, Appendix C (CERI and FW Assays)

^a Acceptable (E2/NE). Indicates that the positive controls (reference estrogen (E2) and weak binder, norethynodrel (NE) were classified as ‘acceptable’ or ‘unacceptable’ for that particular run based upon judgement considering all estimated PRISM fit parameters simultaneously (top, bottom, slope, residual variability, LogIC50, Hill slope, R2) (see Appendix F, pages 20-21), and the Integrated Summary Report, Section III.A.2). (A/A)= both E2 and NE control data were acceptable for that particular run; (A/U)= acceptable E2 and unacceptable NE control data for that particular run; and (U/U)= unacceptable E2 and NE control data for that particular run. Only data for test chemicals that were produced during a run with acceptable data for the controls (E2 and NE, e.g, A/A) were used in the independent statistical analysis conducted by Battelle (Appendix F).

^b PRISM fit parameters for competitive binding data for each run. For description of data analysis refer to Section III.A.2, *Data handling and statistical analysis*, in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα).

^c The selection of test chemicals and derivation of expected binding affinities are described in Section II.E, *Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα)*. In brief, the selection of chemicals was based upon strong historical documentation in published literature, input from scientists on the Study Management Team, the Validation Management Group-Non Animal Workgroup, and the Chemical Advisory Board.

^d Run acceptable by Lab. “0” Indicates that data were submitted as ‘acceptable’ by the laboratory conducting the run; “1” indicates that data were submitted as ‘unacceptable’ by the laboratory based on an identified technical error while conducting the run (Appendix H, Task 2).

^e Following a technical review of the standardized data analysis, some runs were re-analyzed using the 10% rule. Updated PRISM fit estimates for these runs are shown in Appendix C, Addendum. (Refer to Appendix H, Task 3 and the Integrated Summary Report, Section III.A.2) for additional information).

^f Several of the participating laboratories are referenced by alternate names in the Battelle Data Analysis Reports. The laboratory name listed in parenthesis is consistent with that used in *the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα)*. Freyberger (Bayer), JapanCERI (CERI), Missouri (U. Missouri), Dietrich (U. Konstanz), Lovelace (Lovelace Respiratory Research Laboratory), CeeTox (no alternate name used).

^g Abbreviations: Atrazine (Atr), Benz(a)anthracene (BaA), Bisphenol A (BPA), Butyl paraben [n-butyl-4-hydroxybenzoate] (ButylPar), Corticosterone (Cort), Di-n-butyl phthalate (DBP, uncoded negative control, non-binder), Di-n-butyl phthalate-TC (DBP-Test Chemical, coded test chemical), o,p'-DDT (DDT; 1,1,1-trichloro-2-[o-chlorophenyl]ethane), Diethylstilbestrol (DES), Dexamethasone (Dex), 5α-dihydrotestosterone (DHT), 17β-Estradiol (E2, Reference estrogen, uncoded Control), 17β-Estradiol-TC (E2-Test Chemicals, coded test chemical), 17α-ethynylestradiol (EE2), Enterolactone (ELactone), Equol (Equol), Genistein (Gen), Meso-Hexestrol (Hexestrol), 2,2-bis(p-hydroxyphenyl)-1,1,1-trichloroethane (HPTE), Kepone (Kepone), Norethynodrel (NE, uncoded Control, weak binder), Norethynodrel-TC (NE-

Test Chemical, coded test chemical), 19-Norethindrone (Nethdrone), Nonylphenol [mixture] (NPhenol), Octyltriethoxysilane (OTES), Progesterone (P4), Tamoxifen (Tamox), Zearalenone (Zear).

*Missing data for PRISM fit parameters. A run with missing estimates for part of the PRISM fit parameters indicates an 'ambiguous fit' for the data. Runs missing (blank cells) all estimates for the PRIMS fit indicate a 'non-binder' for the hrER.

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Ceetox	st1	20090207	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Ceetox	st1	20090208	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Ceetox	st1	20090211	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Ceetox	st1	20090207.00	A/A	E2	2.84	107.00	-8.78	-1.18	2.36	2.86	0.04	0.13	20	0.984	5.78	24	POS	0	
Ceetox	st1	20090208.00	A/A	E2	2.85	101.40	-8.77	-1.16	2.58	3.03	0.04	0.15	20	0.980	6.22	24	POS	0	
Ceetox	st1	20090211.00	A/A	E2	3.41	109.50	-8.74	-1.24	2.52	2.94	0.04	0.15	20	0.983	6.22	24	POS	0	
Ceetox	st1	20090207.00	A/A	NE	1.20	96.28	-5.94	-0.86	2.04	0.91	0.02	0.05	20	0.996	2.14	24	POS	0	
Ceetox	st1	20090208.00	A/A	NE	2.71	94.59	-5.86	-0.97	2.43	1.04	0.02	0.07	20	0.994	2.73	24	POS	0	
Ceetox	st1	20090211.00	A/A	NE	0.71	96.99	-5.73	-0.96	3.19	1.17	0.03	0.09	20	0.992	3.16	24	POS	0	
JapanCERI	st1	91224.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st1	100107.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st1	100108.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st1	91224.00	A/A	E2	-0.93	92.45	-8.96	-1.37	1.32	1.59	0.02	0.10	20	0.994	3.42	24	POS	0	
JapanCERI	st1	100107.00	A/A	E2	-0.86	99.42	-8.99	-1.42	1.15	1.46	0.02	0.09	20	0.996	3.07	24	POS	0	
JapanCERI	st1	100108.00	A/A	E2	-3.53	101.80	-8.96	-1.28	2.03	2.58	0.03	0.13	20	0.988	5.21	24	POS	0	
JapanCERI	st1	91224.00	A/A	NE	-7.02	97.85	-6.28	-0.72	3.12	1.77	0.03	0.06	20	0.993	3.21	24	POS	0	
JapanCERI	st1	100107.00	A/A	NE	-5.56	97.09	-6.16	-0.88	3.79	2.03	0.03	0.09	20	0.986	4.62	24	POS	0	
JapanCERI	st1	100108.00	A/A	NE	-4.65	100.40	-6.10	-0.93	3.88	2.08	0.04	0.10	20	0.985	4.96	24	POS	0	
Lovelace	st1	39826.00	A/A	DBP	.	99.45	.	.	.	2.40	.	.	17	0.948	8.30	21	NEG	0	
Lovelace	st1	39829.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st1	39826.00	A/A	E2	4.36	102.00	-9.29	-1.14	2.22	3.85	0.04	0.15	20	0.978	6.07	24	POS	0	
Lovelace	st1	39829.00	A/A	E2	-6.62	97.30	-9.48	-0.76	4.02	8.38	0.08	0.16	20	0.947	8.95	24	POS	0	
Lovelace	st1	39826.00	A/A	NE	4.21	106.00	-6.00	-0.92	4.02	2.21	0.04	0.11	20	0.983	5.14	24	POS	0	
Lovelace	st1	39829.00	A/A	NE	-4.84	90.95	-6.20	-0.86	3.79	1.97	0.04	0.10	20	0.985	4.44	24	POS	0	
Missouri	st1	4001.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	6	NEG	0	
Missouri	st1	4002.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	6	NEG	0	
Missouri	st1	4003.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	4005.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	4006.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	4007.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	5003.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0	
Missouri	st1	5007.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	5010.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	4001.2m	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	9	NEG	0	
Missouri	st1	4001.00	A/A	E2	-1.15	101.90	-9.13	-0.80	3.08	5.12	0.05	0.12	20	0.972	6.75	24	POS	0	
Missouri	st1	4002.00	A/A	E2	0.86	105.70	-9.11	-0.85	1.93	3.23	0.03	0.08	20	0.989	4.43	24	POS	0	
Missouri	st1	4003.00	A/A	E2	0.74	102.70	-8.85	-1.21	5.00	6.10	0.08	0.30	20	0.930	12.39	24	POS	0	
Missouri	st1	4005.00	A/A	E2	-0.20	95.96	-9.13	-1.06	2.28	3.37	0.04	0.13	20	0.981	5.70	24	POS	0	
Missouri	st1	4006.00	A/A	E2	-0.69	102.50	-9.08	-1.03	2.16	3.21	0.04	0.11	20	0.985	5.34	24	POS	0	
Missouri	st1	4007.00	A/A	E2	0.45	95.29	-9.15	-0.96	2.02	3.09	0.04	0.10	20	0.985	4.86	24	POS	0	
Missouri	st1	5003.00	A/A	E2	-1.04	94.90	-8.97	-1.37	2.41	2.97	0.04	0.19	20	0.980	6.28	24	POS	0	

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st1	5010.00	A/A	EZ	-1.60	100.40	-9.27	-1.16	1.58	2.59	0.03	0.10	20	0.990	4.28	24	POS	0
Missouri	st1	4001.2m	A/A	E2	0.38	88.43	-9.09	-1.07	2.62	3.57	0.05	0.16	20	0.972	6.39	24	POS	0
Missouri	st1	4001.00	A/A	NE	2.03	107.40	-6.00	-0.90	4.02	2.18	0.04	0.10	20	0.985	5.03	24	POS	0
Missouri	st1	4002.00	A/A	NE	1.26	101.10	-6.03	-1.01	3.12	1.68	0.03	0.10	20	0.988	4.28	24	POS	0
Missouri	st1	4003.00	A/A	NE	10.18	113.60	-5.92	-1.09	9.87	5.61	0.11	0.34	20	0.890	14.66	24	POS	0
Missouri	st1	4005.00	A/A	NE	-3.78	104.70	-5.89	-0.76	7.64	3.17	0.06	0.13	20	0.970	6.65	24	POS	0
Missouri	st1	4006.00	A/A	NE	2.72	100.90	-5.90	-1.10	4.76	2.34	0.05	0.17	20	0.972	6.50	24	POS	0
Missouri	st1	4007.00	A/A	NE	0.44	95.21	-6.02	-0.92	6.59	2.75	0.05	0.16	19	0.962	6.66	23	POS	0
Missouri	st1	5003.00	A/A	NE	9.20	99.19	-6.44	-0.85	7.01	5.74	0.09	0.23	20	0.918	10.62	24	POS	0
Missouri	st1	5007.00	A/A	NE	6.31	104.00	-6.16	-0.94	3.97	2.54	0.04	0.12	20	0.979	5.68	24	POS	0
Missouri	st1	5010.00	A/A	NE	-1.50	99.46	-6.69	-1.06	1.14	1.07	0.01	0.05	20	0.997	2.18	24	POS	0
Missouri	st1	4001_2m	A/A	NE	0.54	103.70	-6.03	-0.84	5.11	2.70	0.05	0.12	20	0.977	5.86	24	POS	0
Lovelace	st12	40079.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	40129.00	A/A	DBP	.	99.67	.	.	.	1.25	.	.	17	0.978	4.34	21	NEG	0
Lovelace	st12	7-Apr-10#1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	7-Apr-10#2	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	7-Apr-10#3	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	40079.00	A/A	DBP-TC	13.64	111.50	-4.77	-0.71	12.31	3.45	0.16	0.22	20	0.919	11.02	24	NEG	0
Lovelace	st12	40129.00	A/A	DBP-TC	-25.91	90.18	-5.20	-0.50	32.50	7.25	0.26	0.26	20	0.824	18.53	24	NEG	0
Lovelace	st12	40275.00	A/A	DBP-TC	-7.14	76.88	.	.	6.23	2.65	.	.	20	0.916	10.25	24	NEG	0
Lovelace	st12	4-7-2010_2	A/A	DBP-TC	-8.10	80.00	-4.43	-1.37	7.30	2.74	0.14	0.49	20	0.917	10.41	24	NEG	0
Lovelace	st12	4-7-2010_3	A/A	DBP-TC	-11.66	81.19	-5.19	-0.66	16.52	5.05	0.23	0.30	20	0.844	15.39	24	NEG	0
Lovelace	st12	40079.00	A/A	E2	-1.76	117.40	-8.56	-1.68	4.71	4.56	0.05	0.36	20	0.957	12.02	24	POS	0
Lovelace	st12	40129.00	A/A	E2	2.33	97.87	-8.58	-1.07	4.60	4.75	0.07	0.24	20	0.943	10.18	24	POS	0
Lovelace	st12	40275.00	A/A	E2	-1.94	97.34	-9.47	-1.00	3.67	7.04	0.07	0.22	20	0.941	9.72	24	POS	0
Lovelace	st12	4-7-2010_2	A/A	E2	1.73	87.84	-9.42	-1.39	3.18	5.36	0.07	0.32	20	0.940	9.38	24	POS	0
Lovelace	st12	4-7-2010_3	A/A	E2	8.08	86.10	-9.45	-1.26	3.38	6.00	0.08	0.34	20	0.917	9.80	24	POS	0
Lovelace	st12	40079.00	A/A	E2-TC	8.33	73.69	-9.81	-1.11	4.59	27.28	0.38	1.44	20	0.631	17.12	24	POS	0
Lovelace	st12	40129.00	A/A	E2-TC	-7.74	90.00	-8.78	-0.58	3.14	6.10	0.12	0.12	20	0.964	7.84	24	POS	0
Lovelace	st12	40275.00	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st12	4-7-2010_2	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st12	4-7-2010_3	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st12	40079.00	A/A	EE2	11.63	.	.	.	3.22	.	.	.	20	0.645	11.15	24	POS	0
Lovelace	st12	40129.00	A/A	EE2	2.19	104.50	-8.71	-0.74	1.95	3.99	0.06	0.10	20	0.983	5.80	24	POS	0
Lovelace	st12	40275.00	A/A	EE2	-12.27	.	-11.04	-0.15	8.08	.	1.96	0.15	20	0.835	8.94	24	POS	0
Lovelace	st12	4-7-2010_2	A/A	EE2	-13.05	.	-11.23	-0.13	9.84	.	0.43	0.05	20	0.833	8.27	24	POS	0
Lovelace	st12	4-7-2010_3	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st12	40079.00	A/A	NE	11.28	128.90	-5.83	-1.56	7.69	4.22	0.07	0.39	20	0.935	13.30	24	POS	0
Lovelace	st12	40129.00	A/A	NE	7.11	96.86	-5.86	-0.98	5.75	2.66	0.06	0.19	20	0.959	6.93	24	POS	0
Lovelace	st12	40275.00	A/A	NE	3.00	102.50	-6.11	-0.94	3.97	2.32	0.04	0.12	20	0.981	5.40	24	POS	0
Lovelace	st12	4-7-2010_2	A/A	NE	6.77	98.91	-6.17	-1.01	3.39	2.10	0.04	0.12	20	0.982	5.05	24	POS	0
Lovelace	st12	4-7-2010_3	A/A	NE	0.15	109.90	-6.25	-0.79	3.26	2.23	0.03	0.07	20	0.990	4.16	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st2	20090215.00	A/A	ButylPar	9.39	104.40	-4.83	-0.67	7.74	3.04	0.12	0.16	20	0.949	8.95	24	POS	0
Ceetox	st2	20090221.00	A/A	ButylPar	2.08	113.60	-4.60	-0.61	12.13	3.66	0.14	0.16	20	0.941	10.58	24	POS	0
Ceetox	st2	20090215.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090221.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090215.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st2	20090221.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st2	20090215.00	A/A	DDT	9.50	94.40	-5.35	-0.88	2.32	1.38	0.05	0.10	20	0.988	4.30	24	POS	0
Ceetox	st2	20090221.00	A/A	DDT	10.87	96.60	-5.13	-0.88	2.93	1.58	0.06	0.12	20	0.983	5.00	24	POS	0
Ceetox	st2	20090215.00	A/A	DES	2.07	92.05	-8.82	-1.00	0.60	2.05	0.02	0.07	20	0.996	2.21	24	POS	0
Ceetox	st2	20090221.00	A/A	DES	1.60	98.09	-8.41	-0.95	0.63	1.80	0.02	0.06	20	0.997	2.23	24	POS	0
Ceetox	st2	20090215.00	A/A	E2	2.45	110.90	-8.73	-1.18	2.35	2.77	0.03	0.13	20	0.986	5.71	24	POS	0
Ceetox	st2	20090221.00	A/A	E2	1.28	115.10	-8.69	-1.09	3.20	3.82	0.05	0.15	20	0.977	7.53	24	POS	0
Ceetox	st2	20090215.00	A/A	EE2	6.86	123.30	-8.55	-0.82	3.53	16.45	0.13	0.27	20	0.917	12.35	24	POS	0
Ceetox	st2	20090221.00	A/A	EE2	9.65	91.10	.	.	2.21	4.60	.	.	20	0.953	8.36	24	POS	0
Ceetox	st2	20090215.00	A/A	Equol	10.01	106.30	-6.66	-1.19	3.82	4.05	0.11	0.35	20	0.949	10.97	24	POS	0
Ceetox	st2	20090221.00	A/A	Equol	10.19	106.90	-6.50	-1.20	3.95	4.02	0.12	0.30	20	0.948	11.24	24	POS	0
Ceetox	st2	20090215.00	A/A	Gen	12.25	94.02	-6.87	-1.14	2.99	3.46	0.09	0.36	20	0.954	8.76	24	POS	0
Ceetox	st2	20090221.00	A/A	Gen	21.37	96.25	-6.30	-1.37	4.27	4.26	0.16	0.46	20	0.904	12.31	24	POS	0
Ceetox	st2	20090215.00	A/A	Hexestrol	2.75	92.42	-8.46	-1.17	0.85	2.18	0.04	0.10	20	0.993	3.15	24	POS	0
Ceetox	st2	20090221.00	A/A	Hexestrol	2.24	102.70	-8.18	-0.91	0.94	2.44	0.03	0.08	20	0.994	3.20	24	POS	0
Ceetox	st2	20090215.00	A/A	NE	6.15	95.17	-5.90	-1.13	1.75	0.85	0.02	0.07	20	0.995	2.41	24	POS	0
Ceetox	st2	20090221.00	A/A	NE	4.21	98.11	-6.19	-0.95	1.78	1.10	0.02	0.06	20	0.995	2.52	24	POS	0
Ceetox	st2	20090215.00	A/A	NPhenol	6.53	91.84	-5.47	-0.97	1.40	0.88	0.03	0.07	20	0.995	2.81	24	POS	0
Ceetox	st2	20090221.00	A/A	NPhenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Freyberger	st2	B	A/A	ButylPar	-4.00	84.02	-4.96	-0.66	3.21	0.89	0.04	0.06	20	0.993	2.74	24	POS	0
Freyberger	st2	C	A/A	ButylPar	-16.13	93.57	-4.77	-0.55	4.60	0.88	0.03	0.04	20	0.996	2.47	24	POS	0
Freyberger	st2	D	A/A	ButylPar	-8.62	99.26	-4.73	-0.64	3.80	1.00	0.04	0.05	20	0.994	3.03	24	POS	0
Freyberger	st2	B	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st2	C	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st2	D	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st2	B	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	C	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	D	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	E	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	F	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	G	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	E	A/A	DDT	-1.60	93.62	-5.55	-0.96	1.95	1.24	0.04	0.09	20	0.992	3.93	24	POS	0
Freyberger	st2	F	A/A	DDT	1.41	99.51	-5.70	-0.84	1.59	1.06	0.03	0.06	20	0.995	3.11	24	POS	0
Freyberger	st2	G	A/A	DDT	3.71	98.69	-5.59	-0.93	0.96	0.63	0.02	0.04	20	0.998	1.96	24	POS	0
Freyberger	st2	E	A/A	DES	-2.10	89.80	-8.50	-1.23	0.40	1.00	0.02	0.05	20	0.999	1.49	24	POS	0
Freyberger	st2	F	A/A	DES	-0.80	104.20	-8.49	-0.82	1.58	5.47	0.06	0.11	20	0.982	5.40	24	POS	0
Freyberger	st2	G	A/A	DES	0.12	101.80	-8.43	-0.97	0.76	2.19	0.03	0.06	20	0.996	2.72	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st2	B	A/A	E2	-0.49	101.00	-9.00	-1.09	0.54	0.74	0.01	0.03	20	0.999	1.33	24	POS	0
Freyberger	st2	C	A/A	E2	-0.53	99.55	-9.02	-1.10	0.53	0.74	0.01	0.03	20	0.999	1.32	24	POS	0
Freyberger	st2	D	A/A	E2	-0.26	99.27	-9.02	-1.07	0.53	0.74	0.01	0.03	20	0.999	1.31	24	POS	0
Freyberger	st2	E	A/A	E2	-1.39	102.70	-9.03	-1.13	0.66	0.92	0.01	0.04	20	0.999	1.66	24	POS	0
Freyberger	st2	F	A/A	E2	-0.61	102.80	-9.10	-1.16	0.67	0.99	0.01	0.04	20	0.998	1.76	24	POS	0
Freyberger	st2	G	A/A	E2	0.60	88.15	-8.95	-1.59	1.33	1.52	0.02	0.14	20	0.993	3.55	24	POS	0
Freyberger	st2	E	A/A	EE2	-0.69	88.56	-8.91	-1.25	0.70	2.04	0.02	0.11	20	0.994	2.65	24	POS	0
Freyberger	st2	F	A/A	EE2	2.53	98.50	-8.66	-1.23	1.01	2.69	0.04	0.12	20	0.990	3.79	24	POS	0
Freyberger	st2	G	A/A	EE2	3.25	97.90	-8.68	-1.29	1.04	2.71	0.04	0.13	20	0.990	3.92	24	POS	0
Freyberger	st2	B	A/A	Equol	1.76	80.38	-6.60	-1.06	1.23	1.21	0.04	0.09	20	0.993	3.33	24	POS	0
Freyberger	st2	C	A/A	Equol	1.16	92.68	-6.53	-1.01	1.28	1.27	0.04	0.08	20	0.994	3.42	24	POS	0
Freyberger	st2	D	A/A	Equol	2.54	99.87	-6.55	-0.95	1.19	1.21	0.03	0.06	20	0.996	3.16	24	POS	0
Freyberger	st2	E	A/A	Gen	5.08	90.16			2.55	1.88			20	0.979	6.38	24	POS	0
Freyberger	st2	F	A/A	Gen	9.36	98.81			3.15	2.41			20	0.970	8.03	24	POS	0
Freyberger	st2	G	A/A	Gen	7.86	100.20			2.40	1.75			20	0.984	5.96	24	POS	0
Freyberger	st2	B	A/A	Hexestrol	-2.18	81.39	-8.12	-0.99	0.29	0.55	0.01	0.03	20	0.999	0.97	24	POS	0
Freyberger	st2	C	A/A	Hexestrol	-1.06	88.63	-8.01	-1.07	0.78	1.41	0.03	0.09	20	0.996	2.61	24	POS	0
Freyberger	st2	D	A/A	Hexestrol	-0.48	96.56	-7.90	-1.11	0.65	1.12	0.02	0.07	20	0.998	2.17	24	POS	0
Freyberger	st2	B	A/A	NE	-1.26	97.70	-6.32	-0.95	1.31	0.86	0.01	0.04	20	0.998	1.93	24	POS	0
Freyberger	st2	C	A/A	NE	-1.05	96.84	-6.39	-0.96	2.18	1.52	0.02	0.07	20	0.993	3.34	24	POS	0
Freyberger	st2	D	A/A	NE	-0.80	95.48	-6.49	-1.02	1.37	1.04	0.02	0.05	20	0.997	2.29	24	POS	0
Freyberger	st2	E	A/A	NE	-1.89	100.00	-6.55	-1.01	1.45	1.19	0.02	0.05	20	0.997	2.51	24	POS	0
Freyberger	st2	F	A/A	NE	-1.11	101.00	-6.58	-1.02	1.10	0.93	0.01	0.04	20	0.998	1.95	24	POS	0
Freyberger	st2	G	A/A	NE	-1.94	103.10	-6.56	-1.02	0.89	0.75	0.01	0.03	20	0.999	1.57	24	POS	0
Freyberger	st2	E	A/A	NPhenol	-1.74	94.69	-5.68	-0.77	0.85	0.53	0.02	0.03	20	0.999	1.53	24	POS	0
Freyberger	st2	F	A/A	NPhenol	0.45	95.81	-5.76	-0.82	1.44	0.96	0.03	0.05	20	0.996	2.79	24	POS	0
Freyberger	st2	G	A/A	NPhenol	2.63	93.68	-5.61	-0.96	1.32	0.87	0.03	0.06	20	0.996	2.71	24	POS	0
JapanCERi	st2	100119.00	A/A	ButylPar	#####	105.00	-3.52	-0.20	#####	3.04	0.18	0.02	20	0.574	20.69	24	POS	0
JapanCERi	st2	100126.00	A/A	ButylPar	29.89	100.80	-3.63	-1.14	5.90	1.26	0.10	0.33	20	0.966	4.70	24	POS	0
JapanCERi	st2	100129.00	A/A	ButylPar	21.35	90.04	-3.76	-1.23	6.89	1.03	0.08	0.43	20	0.974	3.87	24	POS	0
JapanCERi	st2	100119.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERi	st2	100126.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERi	st2	100129.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERi	st2	100119.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERi	st2	100126.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERi	st2	100129.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERi	st2	100119.00	A/A	DDT	11.19	106.50	-4.35	-0.99	4.04	1.40	0.06	0.13	20	0.983	5.03	24	POS	0
JapanCERi	st2	100126.00	A/A	DDT	6.69	104.40	-4.34	-0.95	3.01	0.97	0.04	0.08	20	0.992	3.48	24	POS	0
JapanCERi	st2	100129.00	A/A	DDT	7.44	91.97	-4.29	-0.91	5.49	1.51	0.07	0.16	20	0.971	5.42	24	POS	0
JapanCERi	st2	100119.00	A/A	DES	3.10	117.40	-7.66	-0.84	2.27	4.47	0.07	0.13	20	0.980	7.12	24	POS	0
JapanCERi	st2	100126.00	A/A	DES	2.60	103.90	-7.30	-1.12	0.78	1.14	0.02	0.06	20	0.997	2.52	24	POS	0
JapanCERi	st2	100129.00	A/A	DES	0.49	95.66	-7.33	-1.26	1.71	2.45	0.06	0.18	20	0.985	5.63	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st2	100119.00	A/A	E2	4.42	108.00	-8.67	-1.42	3.93	4.20	0.06	0.28	20	0.959	9.89	24	POS	0
JapanCERI	st2	100126.00	A/A	E2	4.01	109.70	-8.80	-1.38	1.82	2.17	0.03	0.13	20	0.991	4.70	24	POS	0
JapanCERI	st2	100129.00	A/A	E2	1.34	101.00	-8.84	-1.14	2.80	3.42	0.04	0.16	20	0.976	6.77	24	POS	0
JapanCERI	st2	100119.00	A/A	EE2	3.61	116.70	-7.80	-0.97	1.53	3.07	0.05	0.12	20	0.990	5.05	24	POS	0
JapanCERI	st2	100126.00	A/A	EE2	1.98	107.20	-7.47	-1.14	1.15	1.74	0.03	0.08	20	0.994	3.79	24	POS	0
JapanCERI	st2	100129.00	A/A	EE2	4.62	92.29	-7.76	-1.80	2.12	3.06	0.09	0.56	20	0.972	7.29	24	POS	0
JapanCERI	st2	100119.00	A/A	Equol	7.04	105.10	-5.42	-1.08	1.56	1.03	0.03	0.08	20	0.995	3.35	24	POS	0
JapanCERI	st2	100126.00	A/A	Equol	1.10	100.70	-5.31	-1.07	2.10	1.33	0.04	0.10	20	0.991	4.34	24	POS	0
JapanCERI	st2	100129.00	A/A	Equol	-0.85	91.36	-5.47	-1.14	1.80	1.18	0.04	0.10	20	0.992	3.90	24	POS	0
JapanCERI	st2	100119.00	A/A	Gen	1.38	107.70	-4.91	-1.49	5.14	2.66	0.07	0.67	20	0.963	9.53	24	POS	0
JapanCERI	st2	100126.00	A/A	Gen	0.93	112.70	-4.89	-1.10	5.20	2.59	0.07	0.27	20	0.969	8.86	24	POS	0
JapanCERI	st2	100129.00	A/A	Gen	3.55	101.20			2.44	1.11			20	0.991	4.27	24	POS	0
JapanCERI	st2	100119.00	A/A	Hexestrol	4.40	109.70	-6.87	-1.39	1.64	1.88	0.04	0.26	20	0.991	4.95	24	POS	0
JapanCERI	st2	100126.00	A/A	Hexestrol	2.98	101.20	-6.71	-1.17	2.82	2.94	0.08	0.23	20	0.973	8.04	24	POS	0
JapanCERI	st2	100129.00	A/A	Hexestrol	1.50	98.46	-6.85	-1.24	1.59	1.72	0.04	0.17	20	0.991	4.63	24	POS	0
JapanCERI	st2	100119.00	A/A	NE	10.77	118.40	-6.00	-0.96	5.34	3.38	0.06	0.15	20	0.968	7.76	24	POS	0
JapanCERI	st2	100126.00	A/A	NE	9.63	104.00	-6.20	-1.29	4.54	3.03	0.05	0.23	20	0.962	8.12	24	POS	0
JapanCERI	st2	100129.00	A/A	NE	9.64	100.50	-6.29	-1.19	1.64	1.16	0.02	0.08	20	0.995	2.91	24	POS	0
JapanCERI	st2	100119.00	A/A	NPhenol	6.81	106.00	-4.47	-0.89	3.23	1.09	0.04	0.09	20	0.991	3.79	24	POS	0
JapanCERI	st2	100126.00	A/A	NPhenol	6.03	102.10	-4.54	-1.03	4.97	1.84	0.07	0.18	20	0.973	6.65	24	POS	0
JapanCERI	st2	100129.00	A/A	NPhenol	5.13	92.60	-4.62	-0.96	2.42	0.85	0.04	0.08	20	0.993	3.03	24	POS	0
Lovelace	st2	39870.00	A/A	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	39941.00	A/A	ButylPar	5.84	112.50	-4.12	-0.89	13.68	3.67	0.14	0.30	20	0.902	13.05	24	POS	0
Lovelace	st2	2-27-2009T	A/A	ButylPar	44.54	144.60	-4.22	-0.80	12.52	8.59	0.91	0.45	20	0.780	24.29	24	POS	0
Lovelace	st2	39870.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Lovelace	st2	39938.00	A/A	Cort	-2.4E+07	83.04	-4.83	-0.15	4.4E+12	9.93	0.47	0.08	20	0.779	10.77	24	NEG	0
Lovelace	st2	2-27-2009T	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	5-6-2009T	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	39870.00	A/A	DBP	23.05	104.40	-5.68	-0.64	13.64	7.12	0.31	0.34	17	0.819	15.93	21	NEG	1
Lovelace	st2	39871.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39937.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39938.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39939.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39941.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39870.00	A/A	DDT	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	39938.00	A/A	DDT	22.65	87.62	-6.59	-0.88	5.94	4.09	0.21	0.38	20	0.861	12.12	24	POS	0
Lovelace	st2	2-27-2009T	A/A	DDT	-51.91	144.00	-3.21	-0.40	493.40	14.97	0.38	0.58	20	0.537	35.21	24	POS	0
Lovelace	st2	39870.00	A/A	DES	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	39937.00	A/A	DES	3.92	130.30	-9.96	-0.57	1.47	6.14	0.05	0.06	20	0.992	4.19	24	POS	0
Lovelace	st2	39938.00	A/A	DES	3.92	74.84	-9.66	-0.97	1.92	2.88	0.10	0.18	20	0.968	6.00	24	POS	0
Lovelace	st2	2-27-2009T	A/A	DES	24.40	76.63	-5.96	-0.85	5.37	4.20	0.23	0.45	20	0.815	11.62	24	POS	0
Lovelace	st2	5-6-2009T	A/A	DES	9.35	154.80	-9.09	-0.79	2.39	4.24	0.07	0.09	20	0.988	7.15	24	POS	0

Table C-1. CERl Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st2	39870.00	A/A	E2	8.49	111.80	-9.18	-1.16	4.37	7.50	0.08	0.28	20	0.927	12.05	24	POS	1
Lovelace	st2	39871.00	A/A	E2	3.99	166.10	-8.96	-1.28	3.94	6.41	0.05	0.18	20	0.975	11.13	24	POS	0
Lovelace	st2	39937.00	A/A	E2	0.46	126.50	-8.83	-1.15	1.45	1.95	0.02	0.07	20	0.996	3.64	24	POS	0
Lovelace	st2	39938.00	A/A	E2	0.72	86.58	-8.77	-1.58	4.20	4.26	0.07	0.41	20	0.933	10.75	24	POS	0
Lovelace	st2	39939.00	A/A	E2	-3.00	151.20	-8.78	-0.92	2.48	3.77	0.03	0.07	20	0.992	5.80	24	POS	0
Lovelace	st2	39941.00	A/A	E2	5.47	111.90	-8.54	-1.03	4.08	4.55	0.06	0.18	20	0.962	9.10	24	POS	0
Lovelace	st2	39870.00	A/A	EE2	.	.	.	0.19	.	.	.	0.21	20	0.297	74.54	24	POS	1
Lovelace	st2	39937.00	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	39938.00	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	2-27-2009T	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	5-6-2009T	A/A	EE2	2.56	.	-10.88	-0.65	3.22	.	0.92	1.85	20	0.731	12.28	24	POS	0
Lovelace	st2	39870.00	A/A	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	39938.00	A/A	Equol	0.09	76.68	-6.54	-1.15	1.59	1.54	0.06	0.15	20	0.987	4.35	24	POS	0
Lovelace	st2	2-27-2009T	A/A	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	5-6-2009T	A/A	Equol	10.10	50.00	.	.	2.81	0.00	.	.	20	0.838	7.46	24	POS	0
Lovelace	st2	39870.00	A/A	Gen	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	2-27-2009T	A/A	Gen	36.08	109.40	.	.	5.95	4.99	.	.	20	0.844	15.98	24	POS	0
Lovelace	st2	39870.00	A/A	Hexestrol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	39937.00	A/A	Hexestrol	2.30	106.80	-9.12	-0.95	3.44	8.65	0.11	0.30	20	0.932	11.86	24	POS	0
Lovelace	st2	39938.00	A/A	Hexestrol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	2-27-2009T	A/A	Hexestrol	27.23	58.67	.	.	4.93	5.84	.	.	20	0.506	15.76	24	POS	0
Lovelace	st2	5-6-2009T	A/A	Hexestrol	8.84	180.10	-9.24	-0.27	8.47	212.70	0.23	0.19	20	0.876	11.41	24	POS	0
Lovelace	st2	39870.00	A/A	NE	12.40	106.70	-6.48	-0.88	9.79	9.22	0.14	0.33	20	0.844	16.30	24	POS	1
Lovelace	st2	39871.00	A/A	NE	15.88	134.50	-6.02	-0.96	8.67	6.49	0.11	0.24	20	0.925	13.73	24	POS	0
Lovelace	st2	39937.00	A/A	NE	-0.58	127.20	-5.71	-0.83	8.42	3.79	0.07	0.14	20	0.967	8.49	24	POS	0
Lovelace	st2	39938.00	A/A	NE	6.07	90.58	-5.95	-1.06	5.36	2.59	0.06	0.21	20	0.955	7.07	24	POS	0
Lovelace	st2	39939.00	A/A	NE	-12.24	151.60	-5.62	-0.72	7.52	3.13	0.04	0.08	20	0.988	6.17	24	POS	0
Lovelace	st2	39941.00	A/A	NE	-7.09	120.40	-5.39	-0.73	35.45	7.84	0.18	0.37	20	0.838	17.13	24	POS	0
Lovelace	st2	39870.00	A/A	NPhenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	2-27-2009T	A/A	NPhenol	31.08	114.50	-3.93	-0.60	23.23	6.99	0.46	0.41	20	0.714	20.02	24	POS	0
Missouri	st2	5006.00	A/A	ButylPar	21.62	104.00	-3.91	-0.75	10.22	2.22	0.13	0.20	20	0.938	7.50	24	POS	0
Missouri	st2	5008.00	A/A	ButylPar	-2.0E+05	117.20	-3.25	-0.33	5.9E+08	4.42	0.11	0.25	20	0.907	9.27	24	POS	0
Missouri	st2	5009.00	A/A	ButylPar	-3.0E+03	115.30	-3.24	-0.35	1.6E+05	4.74	0.12	0.29	20	0.879	10.37	24	POS	0
Missouri	st2	5006.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st2	5008.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st2	5009.00	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st2	5006.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	5008.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	5009.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	5006.00	A/A	DDT	12.43	102.80	-4.74	-0.93	5.95	2.56	0.11	0.24	20	0.953	8.58	24	POS	0
Missouri	st2	5008.00	A/A	DDT	5.89	113.70	-4.19	-0.65	13.86	3.09	0.13	0.18	20	0.940	9.73	24	POS	0
Missouri	st2	5009.00	A/A	DDT	17.20	113.20	-4.20	-0.88	5.68	1.80	0.08	0.15	20	0.973	6.28	24	POS	0

Table C-1. CERl Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st2	5006.00	A/A	DES	-1.56	100.70	-8.26	-1.01	1.03	2.61	0.04	0.10	20	0.993	3.62	24	POS	0
Missouri	st2	5008.00	A/A	DES	1.47	121.10	-7.86	-0.89	2.19	4.98	0.06	0.14	20	0.981	7.20	24	POS	0
Missouri	st2	5009.00	A/A	DES	2.48	115.30	-7.39	-1.07	1.18	1.79	0.03	0.08	20	0.995	3.82	24	POS	0
Missouri	st2	5006.00	A/A	E2	-1.10	103.90	-9.20	-1.10	1.28	2.07	0.02	0.07	20	0.994	3.37	24	POS	0
Missouri	st2	5008.00	A/A	E2	1.56	96.94	-8.96	-1.56	1.81	2.21	0.03	0.18	20	0.988	4.91	24	POS	0
Missouri	st2	5009.00	A/A	E2	-1.14	111.80	-9.02	-1.17	1.69	2.43	0.03	0.09	20	0.992	4.39	24	POS	0
Missouri	st2	5006.00	A/A	EE2	-0.58	104.10	-8.50	-1.01	1.05	3.04	0.04	0.09	20	0.992	3.81	24	POS	0
Missouri	st2	5008.00	A/A	EE2	7.33	106.20	-7.33	-2.25	1.70	2.40	0.08	0.49	20	0.987	5.85	24	POS	0
Missouri	st2	5009.00	A/A	EE2	7.82	108.60	-7.95	-1.33	2.75	5.50	0.08	0.52	20	0.956	9.78	24	POS	0
Missouri	st2	5006.00	A/A	Equol	2.63	99.55	-6.05	-0.74	4.19	3.38	0.10	0.15	20	0.963	8.63	24	POS	0
Missouri	st2	5008.00	A/A	Equol	13.66	110.70	-5.26	-1.06	2.79	1.82	0.06	0.14	20	0.983	5.90	24	POS	0
Missouri	st2	5009.00	A/A	Equol	17.01	114.60	-5.09	-1.27	3.29	2.18	0.07	0.22	20	0.976	7.30	24	POS	0
Missouri	st2	5006.00	A/A	Gen	0.89	102.40	-5.23	-0.95	3.71	2.16	0.07	0.15	20	0.978	6.92	24	POS	0
Missouri	st2	5008.00	A/A	Gen	19.55	107.30	-4.62	-1.99	6.70	2.97	0.28	1.54	20	0.925	11.41	24	POS	0
Missouri	st2	5009.00	A/A	Gen	31.62	118.80			4.63	2.08			20	0.962	8.04	24	POS	0
Missouri	st2	5006.00	A/A	Hexestrol	-1.70	96.58	-7.45	-1.15	1.13	1.67	0.04	0.09	20	0.994	3.70	24	POS	0
Missouri	st2	5008.00	A/A	Hexestrol	4.20	96.89	-7.04	-1.96	3.27	4.17	0.08	2.17	20	0.950	10.66	24	POS	0
Missouri	st2	5009.00	A/A	Hexestrol	4.99	115.00	-6.87	-0.98	2.49	3.15	0.07	0.17	20	0.981	7.24	24	POS	0
Missouri	st2	5006.00	A/A	NE	0.82	97.13	-6.10	-1.10	4.33	2.42	0.04	0.16	20	0.973	6.42	24	POS	0
Missouri	st2	5008.00	A/A	NE	5.33	98.77	-5.93	-1.33	4.30	2.22	0.04	0.21	20	0.970	6.72	24	POS	0
Missouri	st2	5009.00	A/A	NE	-1.82	110.10	-5.72	-0.96	4.73	1.91	0.04	0.11	20	0.985	5.06	24	POS	0
Missouri	st2	5006.00	A/A	NPhenol	6.69	103.80	-4.95	-0.78	3.77	1.72	0.06	0.11	20	0.984	5.33	24	POS	0
Missouri	st2	5008.00	A/A	NPhenol	14.74	115.00	-4.63	-0.81	3.63	1.53	0.06	0.10	20	0.987	4.88	24	POS	0
Missouri	st2	5009.00	A/A	NPhenol	19.15	115.00	-4.18	-0.97	3.70	1.26	0.06	0.11	20	0.986	4.53	24	POS	0
Ceetox	st3	20090310B	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090310A	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090310A	A/A	BPA	1.97	97.64	-5.22	-0.88	3.04	1.65	0.06	0.11	20	0.985	5.21	24	POS	0
Ceetox	st3	20090310A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090310A	A/A	DBP-TC	34.38	97.25	-3.18	-1.40	77.59	1.37	0.56	2.78	20	0.931	5.20	24	NEG	0
Ceetox	st3	20090310A	A/A	DHT	22.88	91.97	-4.88	-1.21	1.59	0.87	0.04	0.18	20	0.991	2.97	24	POS	0
Ceetox	st3	20090310A	A/A	E2	1.87	111.20	-8.64	-1.31	2.54	2.73	0.03	0.15	20	0.984	6.22	24	POS	0
Ceetox	st3	20090310A	A/A	E2-TC	9.28	110.10	-7.64	-1.54	2.53	3.73	0.10	0.40	20	0.969	8.64	24	POS	0
Ceetox	st3	20090310A	A/A	ELactone	39.72	94.32	-3.56	-2.02	12.68	1.56	1.05	5.71	20	0.915	6.00	24	NEG	0
Ceetox	st3	20090310A	A/A	Heptylphenol	-76.26	93.35	-3.63	-0.74	96.75	0.89	0.07	0.20	20	0.990	3.10	24	POS	0
Ceetox	st3	20090310A	A/A	Kepone	8.18	107.50	-3.91	-0.81	15.62	2.86	0.13	0.27	20	0.920	10.00	24	POS	0
Ceetox	st3	20090310A	A/A	NE	2.21	94.71	-5.80	-1.02	1.82	0.75	0.02	0.06	20	0.996	2.06	24	POS	0
Ceetox	st3	20090310A	A/A	NE-TC	2.19	92.44	-4.77	-1.05	1.95	0.77	0.03	0.09	20	0.995	2.75	24	POS	0
Ceetox	st3	20090310B	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090310A	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090310A	A/A	Tamox	9.14	100.60	-6.88	-1.82	4.49	4.91	0.15	2.00	20	0.919	13.71	24	POS	0
Ceetox	st3	20090310A	A/A	Zear	17.09	94.98	-6.74	-1.50	3.84	4.01	0.15	0.79	20	0.922	11.36	24	POS	0
Freyberger	st3	C1	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st3	C2	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	C3	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	C1	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	C2	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	C3	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	CODEA2	A/A	BPA	-1.70	99.09	-5.72	-0.86	2.58	1.72	0.05	0.10	20	0.988	5.11	24	POS	0
Freyberger	st3	CODEA3	A/A	BPA	-1.93	92.09	-5.83	-0.86	1.98	1.35	0.04	0.08	20	0.992	3.97	24	POS	0
Freyberger	st3	CODE A2	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE A3	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE B1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE B2	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE B3	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE C1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE C2	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODEC3	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE B1	A/A	DBP-TC	-21.95	90.80	-3.56	-0.75	42.33	0.77	0.07	0.19	20	0.988	2.69	24	NEG	0
Freyberger	st3	CODE B2	A/A	DBP-TC	1.52	91.98	-3.63	-1.01	19.42	0.81	0.08	0.30	20	0.987	2.97	24	NEG	0
Freyberger	st3	CODE B3	A/A	DBP-TC	19.50	90.05	-3.88	-2.65	5.50	0.84	0.40	8.97	20	0.985	3.26	24	NEG	0
Freyberger	st3	CODE B1	A/A	DHT	8.82	92.18	-5.42	-0.89	1.43	0.87	0.03	0.06	20	0.995	2.70	24	POS	0
Freyberger	st3	CODE B2	A/A	DHT	7.07	93.46	-5.44	-0.92	1.81	1.12	0.04	0.08	20	0.992	3.52	24	POS	0
Freyberger	st3	CODE B3	A/A	DHT	8.06	88.34	-5.36	-1.17	2.03	1.32	0.05	0.14	20	0.987	4.38	24	POS	0
Freyberger	st3	CODE A2	A/A	E2	-0.56	100.80	-9.09	-1.04	0.98	1.46	0.02	0.05	20	0.997	2.44	24	POS	0
Freyberger	st3	CODE A3	A/A	E2	-1.27	99.95	-9.09	-1.11	0.88	1.28	0.01	0.05	20	0.997	2.24	24	POS	0
Freyberger	st3	CODE B1	A/A	E2	-0.37	98.76	-9.10	-1.14	0.74	1.07	0.01	0.05	20	0.998	1.91	24	POS	0
Freyberger	st3	CODE B2	A/A	E2	-0.21	99.68	-9.05	-1.12	0.87	1.22	0.01	0.05	20	0.997	2.19	24	POS	0
Freyberger	st3	CODE B3	A/A	E2	0.17	99.20	-9.10	-1.16	0.84	1.21	0.01	0.05	20	0.997	2.16	24	POS	0
Freyberger	st3	CODE C1	A/A	E2	-0.96	103.00	-9.01	-1.20	1.06	1.45	0.02	0.06	20	0.996	2.73	24	POS	0
Freyberger	st3	CODE C2	A/A	E2	-0.74	103.60	-9.02	-1.14	0.65	0.90	0.01	0.04	20	0.999	1.64	24	POS	0
Freyberger	st3	CODE C3	A/A	E2	-0.77	96.78	-9.04	-1.14	0.76	1.04	0.01	0.05	20	0.998	1.91	24	POS	0
Freyberger	st3	CODE A2	A/A	E2-TC	7.28	94.01	-8.99	-1.75	4.11	14.11	0.11	2.91	20	0.810	15.79	24	POS	0
Freyberger	st3	CODE A3	A/A	E2-TC	8.80	92.48	.	.	4.73	18.81	.	.	20	0.748	18.30	24	POS	0
Freyberger	st3	CODE A2	A/A	ELactone	9.58	89.61	-4.37	-0.68	3.82	0.81	0.04	0.07	20	0.992	2.63	24	NEG	0
Freyberger	st3	CODE A3	A/A	ELactone	17.32	91.60	-4.32	-0.79	4.64	1.28	0.07	0.13	20	0.977	4.35	24	NEG	0
Freyberger	st3	CODE B1	A/A	Heptylphenol	-232.70	89.04	-4.19	-0.38	253.80	1.31	0.05	0.07	20	0.991	3.10	24	POS	0
Freyberger	st3	CODE B2	A/A	Heptylphenol	-19.44	88.47	-4.27	-0.79	33.40	4.58	0.18	0.45	20	0.825	15.94	24	POS	0
Freyberger	st3	CODE B3	A/A	Heptylphenol	-51.50	81.77	-4.30	-0.58	23.03	0.91	0.04	0.08	20	0.992	2.85	24	POS	0
Freyberger	st3	CODE A2	A/A	Kepone	3.82	101.70	-5.08	-1.06	1.33	0.75	0.02	0.07	20	0.997	2.48	24	POS	0
Freyberger	st3	CODE A3	A/A	Kepone	-2.95	95.45	-5.28	-0.64	3.84	1.67	0.06	0.08	20	0.987	4.69	24	POS	0
Freyberger	st3	CODE A2	A/A	NE	-2.17	99.82	-6.63	-1.01	0.79	0.69	0.01	0.03	20	0.999	1.41	24	POS	0
Freyberger	st3	CODE A3	A/A	NE	-2.07	99.85	-6.67	-0.98	1.52	1.39	0.02	0.06	20	0.996	2.73	24	POS	0
Freyberger	st3	CODE B1	A/A	NE	-2.94	91.46	-6.65	-0.91	1.75	1.44	0.02	0.06	20	0.995	2.81	24	POS	0
Freyberger	st3	CODE B2	A/A	NE	-1.33	97.39	-6.62	-0.98	1.19	1.03	0.01	0.04	20	0.998	2.06	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Freyberger	st3	CODE B3	A/A	NE	-1.52	101.60	-6.64	-0.89	1.05	0.95	0.01	0.03	20	0.998	1.74	24	POS	0	
Freyberger	st3	CODE C1	A/A	NE	-1.53	107.40	-6.57	-0.98	1.42	1.25	0.02	0.05	20	0.997	2.49	24	POS	0	
Freyberger	st3	CODE C2	A/A	NE	-2.88	101.00	-6.61	-0.99	1.51	1.31	0.02	0.05	20	0.996	2.67	24	POS	0	
Freyberger	st3	CODE C3	A/A	NE	-2.70	101.90	-6.67	-0.96	1.32	1.22	0.02	0.05	20	0.997	2.34	24	POS	0	
Freyberger	st3	CODE C1	A/A	NE-TC	0.89	95.87	-6.12	-1.15	1.43	1.26	0.03	0.13	20	0.994	3.67	24	POS	0	
Freyberger	st3	CODE C2	A/A	NE-TC	0.66	94.99	-6.15	-1.03	1.14	0.99	0.03	0.08	20	0.996	2.83	24	POS	0	
Freyberger	st3	CODE C3	A/A	NE-TC	3.52	101.70	-6.07	-1.03	1.04	0.91	0.02	0.07	20	0.997	2.58	24	POS	0	
Freyberger	st3	CODE B1	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	CODE B2	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	CODE B3	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	CODE C1	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	CODE C2	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	CODE C3	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	CODE A2	A/A	Tamox	-2.08	99.25	-7.46	-1.06	1.02	1.01	0.03	0.06	20	0.997	2.77	24	POS	0	
Freyberger	st3	CODE A3	A/A	Tamox	-1.75	59.57	.	.	5.14	5.05	.	.	20	0.811	15.23	24	POS	0	
Freyberger	st3	CODE B1	A/A	Zear	11.58	89.43	-7.06	-1.55	3.96	5.10	0.11	1.26	20	0.903	12.74	24	POS	0	
Freyberger	st3	CODE B2	A/A	Zear	10.57	90.04	-7.11	-1.46	4.10	5.45	0.13	1.00	20	0.898	13.30	24	POS	0	
Freyberger	st3	CODE B3	A/A	Zear	12.90	89.99	-7.11	-1.55	4.08	5.53	0.14	1.19	20	0.891	13.45	24	POS	0	
JapanCERI	st3	100223.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100224.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100225.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100203.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100208.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100215.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100203.00	A/A	BPA	17.35	128.00	-4.48	-1.42	2.79	1.20	0.06	0.19	20	0.992	4.51	24	POS	0	
JapanCERI	st3	100208.00	A/A	BPA	2.89	114.80	-4.65	-1.30	3.22	1.37	0.05	0.18	20	0.990	5.06	24	POS	0	
JapanCERI	st3	100215.00	A/A	BPA	12.16	83.50	-4.58	-1.39	14.24	5.87	0.31	0.98	20	0.654	22.22	24	POS	0	
JapanCERI	st3	100226.00	A/A	BPA	4.25	102.00	-4.68	-0.74	5.34	1.78	0.07	0.12	20	0.979	5.66	24	POS	0	
JapanCERI	st3	100203.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100208.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100215.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100223.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100224.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100225.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100226.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100301.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100303.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100305.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
JapanCERI	st3	100203.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100208.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100215.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100203.00	A/A	DHT	19.87	136.60	-3.98	-0.98	4.88	1.62	0.07	0.12	20	0.984	5.87	24	POS	0	

Table C-1. CERI Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
JapanCERI	st3	100208.00	A/A	DHT	20.60	127.10	-4.10	-1.10	4.45	1.63	0.07	0.14	20	0.981	6.02	24	POS	0	
JapanCERI	st3	100215.00	A/A	DHT	15.95	100.40	-4.19	-0.68	11.01	2.56	0.14	0.19	20	0.933	8.15	24	POS	0	
JapanCERI	st3	100203.00	A/A	E2	-0.41	137.80	-8.70	-1.22	1.80	2.21	0.02	0.08	20	0.995	4.49	24	POS	0	
JapanCERI	st3	100208.00	A/A	E2	-2.68	126.60	-8.70	-1.21	1.81	2.15	0.02	0.09	20	0.994	4.46	24	POS	0	
JapanCERI	st3	100215.00	A/A	E2	4.30	102.10	-8.79	-1.41	1.64	1.87	0.02	0.12	20	0.991	4.20	24	POS	0	
JapanCERI	st3	100223.00	A/A	E2	4.08	97.33	-8.89	-1.46	1.81	2.15	0.03	0.16	20	0.988	4.76	24	POS	0	
JapanCERI	st3	100224.00	A/A	E2	6.04	106.70	-8.80	-1.53	1.76	2.02	0.03	0.15	20	0.990	4.64	24	POS	0	
JapanCERI	st3	100225.00	A/A	E2	3.02	93.76	-8.86	-1.51	1.27	1.42	0.02	0.11	20	0.994	3.31	24	POS	0	
JapanCERI	st3	100226.00	A/A	E2	2.95	100.20	-8.82	-1.41	1.09	1.25	0.02	0.08	20	0.996	2.81	24	POS	0	
JapanCERI	st3	100301.00	A/A	E2	1.15	90.77	-8.83	-1.22	0.67	0.75	0.01	0.04	20	0.998	1.61	24	POS	0	
JapanCERI	st3	100303.00	A/A	E2	-0.69	115.10	-8.73	-1.33	1.91	2.18	0.03	0.11	20	0.992	4.81	24	POS	0	
JapanCERI	st3	100305.00	A/A	E2	3.41	98.48	-8.76	-1.11	1.36	1.58	0.02	0.08	20	0.994	3.19	24	POS	0	
JapanCERI	st3	100223.00	A/A	E2-TC	3.22	93.31	-8.01	-1.82	1.31	2.26	0.03	0.76	20	0.988	4.65	24	POS	0	
JapanCERI	st3	100224.00	A/A	E2-TC	3.63	107.40	-7.84	-1.17	1.00	1.77	0.03	0.12	20	0.995	3.38	24	POS	0	
JapanCERI	st3	100225.00	A/A	E2-TC	1.59	93.37	-7.98	-1.42	0.85	1.45	0.02	0.19	20	0.995	2.95	24	POS	0	
JapanCERI	st3	100223.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100224.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100225.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100223.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
JapanCERI	st3	100224.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
JapanCERI	st3	100225.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
JapanCERI	st3	100226.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
JapanCERI	st3	100203.00	A/A	Kepone	17.56	134.40	-3.89	-1.80	3.71	1.46	0.04	0.54	20	0.985	5.62	24	POS	0	
JapanCERI	st3	100208.00	A/A	Kepone	-5.11	125.50	-3.70	-0.82	24.09	2.85	0.12	0.28	20	0.943	10.09	24	POS	0	
JapanCERI	st3	100215.00	A/A	Kepone	-1.72	102.20	-3.91	-0.84	9.00	1.23	0.05	0.14	20	0.983	4.37	24	POS	0	
JapanCERI	st3	100203.00	A/A	NE	3.76	139.60	-6.10	-1.02	3.27	2.34	0.03	0.09	20	0.991	5.29	24	POS	0	
JapanCERI	st3	100208.00	A/A	NE	-2.03	134.20	-6.17	-0.95	3.03	2.19	0.03	0.07	20	0.993	4.70	24	POS	0	
JapanCERI	st3	100215.00	A/A	NE	11.40	103.40	-6.33	-1.14	1.42	1.08	0.02	0.07	20	0.996	2.55	24	POS	0	
JapanCERI	st3	100223.00	A/A	NE	11.01	95.98	-6.40	-1.11	1.66	1.28	0.02	0.08	20	0.993	2.95	24	POS	0	
JapanCERI	st3	100224.00	A/A	NE	9.15	111.10	-6.28	-1.05	1.52	1.15	0.02	0.06	20	0.996	2.58	24	POS	0	
JapanCERI	st3	100225.00	A/A	NE	8.05	94.95	-6.41	-1.17	1.07	0.80	0.01	0.06	20	0.997	1.94	24	POS	0	
JapanCERI	st3	100226.00	A/A	NE	8.09	98.47	-6.33	-1.37	1.72	1.23	0.02	0.11	20	0.993	3.29	24	POS	0	
JapanCERI	st3	100301.00	A/A	NE	3.59	91.93	-6.08	-0.83	2.20	1.11	0.02	0.06	20	0.994	2.43	24	POS	0	
JapanCERI	st3	100303.00	A/A	NE	2.99	109.30	-5.90	-1.06	3.29	1.69	0.03	0.10	20	0.988	4.51	24	POS	0	
JapanCERI	st3	100305.00	A/A	NE	10.33	96.27	-5.97	-0.95	1.98	1.04	0.02	0.07	20	0.994	2.55	24	POS	0	
JapanCERI	st3	100223.00	A/A	NE-TC	8.64	93.92	-5.61	-0.88	2.50	1.64	0.06	0.11	20	0.984	4.94	24	POS	0	
JapanCERI	st3	100224.00	A/A	NE-TC	3.92	109.00	-5.30	-1.01	2.31	1.47	0.04	0.10	20	0.991	4.72	24	POS	0	
JapanCERI	st3	100225.00	A/A	NE-TC	4.28	94.33	-5.46	-1.09	1.18	0.77	0.03	0.06	20	0.997	2.51	24	POS	0	
JapanCERI	st3	100301.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100303.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100305.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
JapanCERI	st3	100203.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st3	100208.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	100215.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	100226.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	100203.00	A/A	Tamox	3.32	141.30	-5.69	-0.84	1.41	1.13	0.03	0.04	20	0.998	3.08	24	POS	0
JapanCERI	st3	100208.00	A/A	Tamox	3.07	136.40	-5.88	-1.04	2.60	2.30	0.05	0.13	20	0.990	6.54	24	POS	0
JapanCERI	st3	100215.00	A/A	Tamox	5.47	106.10	-5.99	-1.42	1.57	1.38	0.03	0.24	20	0.993	4.18	24	POS	0
JapanCERI	st3	100203.00	A/A	Zear	7.03	133.20	-5.81	-1.24	1.68	1.44	0.03	0.14	20	0.995	4.30	24	POS	0
JapanCERI	st3	100208.00	A/A	Zear	4.37	123.70	-5.93	-1.72	2.27	2.04	0.04	0.57	20	0.989	6.24	24	POS	0
JapanCERI	st3	100215.00	A/A	Zear	5.19	100.10	-6.00	-1.14	1.25	1.06	0.03	0.11	20	0.996	3.13	24	POS	0
Lovelace	st3	40004.00	A/A	17EE	0.89	97.87	-9.39	-0.78	1.88	2.97	0.06	0.10	20	0.985	5.41	24	POS	0
Lovelace	st3	39979.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	6-11-2009T	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	39979.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	40004.00	A/A	BaA	-25.06	61.00	-5.56	-0.55	890.20	1.50	0.39	0.90	20	0.693	4.67	24	NEG	0
Lovelace	st3	6-11-2009T	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	39965.00	A/A	BPA	-3.39	104.30	-4.43	-0.74	8.05	2.04	0.08	0.13	20	0.972	6.77	24	POS	0
Lovelace	st3	39968.00	A/A	BPA	7.76	116.70	-5.30	-1.00	3.15	2.04	0.06	0.13	20	0.984	6.50	24	POS	0
Lovelace	st3	39972.00	A/A	BPA	2.32	109.80	-5.61	-0.71	2.20	1.45	0.04	0.06	20	0.993	3.90	24	POS	0
Lovelace	st3	39965.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	39968.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	39972.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	39974.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	39975.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	39979.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	40004.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	39974.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	20	0.578	17.65	24	NEG	0
Lovelace	st3	40004.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	6-11-2009T	A/A	DBP-TC	-249.80	129.90	-4.59	-0.62	1716.00	2.36	0.07	0.44	20	0.943	7.76	24	NEG	0
Lovelace	st3	39974.00	A/A	DHT	19.98	119.10	-5.80	-0.77	5.60	1.94	0.09	0.13	20	0.976	6.25	24	POS	0
Lovelace	st3	40004.00	A/A	DHT	-2.63	58.80	-7.06	-0.74	3.46	0.92	0.11	0.10	20	0.983	3.03	24	POS	0
Lovelace	st3	6-11-2009T	A/A	DHT	43.18	127.80	.	.	11.00	6.11	.	.	20	0.761	22.22	24	POS	0
Lovelace	st3	39965.00	A/A	E2	2.41	106.70	-8.83	-1.16	2.05	2.56	0.03	0.11	20	0.988	5.03	24	POS	0
Lovelace	st3	39968.00	A/A	E2	1.39	109.10	-8.92	-0.86	4.41	6.54	0.07	0.17	20	0.951	9.78	24	POS	0
Lovelace	st3	39972.00	A/A	E2	2.31	108.60	-8.81	-1.04	1.44	1.86	0.02	0.07	20	0.994	3.40	24	POS	0
Lovelace	st3	39974.00	A/A	E2	0.99	117.70	-9.04	-0.97	1.43	2.31	0.02	0.06	20	0.995	3.51	24	POS	0
Lovelace	st3	39975.00	A/A	E2	1.16	135.50	-8.98	-1.00	2.82	4.63	0.04	0.11	20	0.984	7.08	24	POS	0
Lovelace	st3	39979.00	A/A	E2	0.19	111.50	-9.01	-0.95	3.25	4.99	0.05	0.14	20	0.972	7.77	24	POS	0
Lovelace	st3	40004.00	A/A	E2	-1.32	112.80	-8.95	-0.84	2.82	4.31	0.04	0.10	20	0.981	6.23	24	POS	0
Lovelace	st3	39965.00	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st3	39968.00	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st3	39972.00	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st3	40004.00	A/A	E2-TC	-0.15	111.80	-9.36	-0.76	1.18	1.98	0.03	0.05	20	0.995	3.40	24	POS	0

Table C-1. CERl Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st3	39968.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	39972.00	A/A	ELactone	31.85	109.00	-3.57	-0.88	9.32	2.10	0.15	0.26	20	0.930	7.50	24	NEG	0
Lovelace	st3	39968.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st3	39972.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st3	39974.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st3	39968.00	A/A	Keponc	-44.23	113.80	-4.48	-0.57	85.35	1.99	0.09	0.19	20	0.964	6.23	24	POS	0
Lovelace	st3	39972.00	A/A	Keponc	-134.50	106.10	-4.42	-0.57	269.60	1.30	0.07	0.17	20	0.982	4.08	24	POS	0
Lovelace	st3	39965.00	A/A	NE	-2.05	106.50	-6.15	-0.99	8.85	5.32	0.08	0.26	20	0.920	12.70	24	POS	0
Lovelace	st3	39968.00	A/A	NE	3.91	110.80	-6.06	-0.92	3.11	1.86	0.03	0.08	20	0.990	4.22	24	POS	0
Lovelace	st3	39972.00	A/A	NE	7.85	108.00	-6.02	-0.87	5.86	3.45	0.06	0.15	20	0.963	7.49	24	POS	0
Lovelace	st3	39974.00	A/A	NE	0.39	116.90	-6.04	-0.83	3.20	1.91	0.03	0.07	20	0.992	3.95	24	POS	0
Lovelace	st3	39975.00	A/A	NE	3.83	134.30	-5.90	-0.87	3.64	2.19	0.03	0.07	20	0.991	4.73	24	POS	0
Lovelace	st3	39979.00	A/A	NE	5.32	116.70	-6.00	-0.85	6.18	3.71	0.06	0.14	20	0.967	7.82	24	POS	0
Lovelace	st3	40004.00	A/A	NE	-8.03	112.40	-5.98	-0.73	3.52	1.67	0.02	0.05	20	0.994	3.25	24	POS	0
Lovelace	st3	39965.00	A/A	Nethdrel-TC	-2.32	84.02	-6.53	-0.65	8.87	4.06	0.17	0.21	20	0.908	11.38	24	POS	0
Lovelace	st3	39968.00	A/A	Nethdrel-TC	3.83	111.60	-5.92	-1.08	2.57	1.34	0.04	0.13	20	0.991	4.52	24	POS	0
Lovelace	st3	39972.00	A/A	Nethdrel-TC	2.45	109.80	-5.86	-0.87	2.46	1.10	0.04	0.08	20	0.994	3.58	24	POS	0
Lovelace	st3	39974.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	6-11-2009T	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	39968.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	39972.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	39974.00	A/A	Tamox	5.95	91.94	-8.94	-0.70	1.36	2.26	0.05	0.07	20	0.990	3.72	24	POS	0
Lovelace	st3	40004.00	A/A	Tamox	4.14	80.93	-9.29	-0.64	2.34	4.35	0.11	0.12	20	0.965	6.23	24	POS	0
Lovelace	st3	6-11-2009T	A/A	Tamox	4.78	87.70	-8.66	-0.70	2.96	4.00	0.11	0.15	20	0.960	7.58	24	POS	0
Lovelace	st3	39965.00	A/A	Zear	-0.03	96.73	-7.38	-0.90	1.55	1.47	0.04	0.08	20	0.993	3.88	24	POS	0
Lovelace	st3	39968.00	A/A	Zear	-3.20	114.00	-7.15	-0.67	4.96	4.38	0.11	0.13	20	0.964	10.15	24	POS	0
Lovelace	st3	39972.00	A/A	Zear	0.89	96.34	-7.45	-0.80	1.31	1.27	0.04	0.06	20	0.995	3.13	24	POS	0
Missouri	st3	6009.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6010.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6011.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6502.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6503.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6504.00	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6009b	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6009.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6010.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6011.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6502.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6503.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6504.00	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st3	6009b	A/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6005.00	A/A	BPA	0.03	109.80	-5.69	-0.81	3.39	2.34	0.07	0.11	20	0.983	6.65	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st3	6006.00	A/A	BPA	1.49	101.60	-5.62	-0.74	3.14	2.06	0.06	0.09	19	0.985	5.57	23	POS	0
Missouri	st3	6007.00	A/A	BPA	15.33	128.60	-5.13	-0.65	7.28	4.46	0.16	0.16	20	0.948	11.56	24	POS	0
Missouri	st3	6005.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st3	6006.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Missouri	st3	6007.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6009.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6010.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6011.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6502.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6503.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6504.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st3	6009b	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6005.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Missouri	st3	6006.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Missouri	st3	6007.00	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Missouri	st3	6005.00	A/A	DHT	15.40	106.20	-5.06	-0.81	63.22	1.74	0.07	0.45	14	0.966	4.46	18	POS	0
Missouri	st3	6006.00	A/A	DHT	44.44	91.51	.	.	42.32	2.29	.	.	14	0.890	6.87	18	POS	0
Missouri	st3	6007.00	A/A	DHT	.	.	.	.	.	.	.	.	.	.	.	18	POS	0
Missouri	st3	6005.00	A/A	E2	1.66	98.80	-9.06	-1.44	1.51	2.06	0.02	0.13	20	0.991	4.16	24	POS	0
Missouri	st3	6006.00	A/A	E2	2.62	95.60	-9.11	-1.22	2.55	3.41	0.04	0.17	17	0.978	6.23	21	POS	0
Missouri	st3	6007.00	A/A	E2	-1.25	109.30	-8.87	-1.39	2.48	3.02	0.03	0.17	20	0.984	6.49	24	POS	0
Missouri	st3	6009.00	A/A	E2	-1.87	107.30	-9.26	-0.87	2.10	3.89	0.04	0.09	20	0.986	5.04	24	POS	0
Missouri	st3	6010.00	A/A	E2	-2.83	85.70	-9.45	-0.84	1.76	3.12	0.04	0.08	20	0.986	4.06	24	POS	0
Missouri	st3	6011.00	A/A	E2	4.72	110.70	-8.98	-1.21	2.52	3.33	0.04	0.15	19	0.983	6.10	23	POS	0
Missouri	st3	6502.00	A/A	E2	-1.91	102.10	-9.12	-0.98	1.86	2.86	0.03	0.09	20	0.989	4.51	24	POS	0
Missouri	st3	6503.00	A/A	E2	-1.05	91.40	-9.05	-1.20	1.21	1.59	0.02	0.08	20	0.994	3.08	24	POS	0
Missouri	st3	6504.00	A/A	E2	-0.90	89.96	-8.98	-1.07	4.18	5.27	0.08	0.24	20	0.939	9.94	24	POS	0
Missouri	st3	6005.00	A/A	E2-TC	4.55	100.50	-9.00	-3.48	2.54	7.36	0.09	74.06	14	0.967	7.62	18	POS	0
Missouri	st3	6006.00	A/A	E2-TC	4.35	79.87	.	.	2.06	10.72	.	.	14	0.964	6.18	18	POS	0
Missouri	st3	6007.00	A/A	E2-TC	14.66	108.70	.	.	5.48	46.85	.	.	14	0.851	16.44	18	POS	0
Missouri	st3	6009.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6010.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6011.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6502.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6503.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6504.00	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6009b	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6009.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st3	6010.00	A/A	Heptylphenol	-4.87	89.19	-3.25	-0.83	227.70	2.01	0.27	1.01	20	0.865	7.15	24	POS	0
Missouri	st3	6011.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st3	6502.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st3	6503.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	23	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st3	6504.00	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st3	6009b	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st3	6009.00	A/A	Kepone	0.42	101.20	-3.75	-0.93	20.14	1.88	0.10	0.34	20	0.955	6.81	24	POS	0
Missouri	st3	6010.00	A/A	Kepone	-46.93	87.61	-3.83	-0.64	61.03	1.26	0.07	0.18	20	0.978	4.17	24	POS	0
Missouri	st3	6011.00	A/A	Kepone	8.94	116.60	-3.77	-0.89	10.52	1.86	0.08	0.20	20	0.968	6.68	24	POS	0
Missouri	st3	6502.00	A/A	Kepone	-162.60	121.40	-3.39	-0.50	506.00	2.99	0.12	0.26	20	0.941	8.85	24	POS	0
Missouri	st3	6503.00	A/A	Kepone	-1.7E+11	104.30	-3.42	-0.53	5.0E+12	1.70	0.08	0.10	20	0.971	5.59	24	POS	0
Missouri	st3	6504.00	A/A	Kepone	13.59	95.88	-3.59	-1.16	69.17	4.09	0.49	2.01	20	0.738	15.32	24	POS	0
Missouri	st3	6009b	A/A	Kepone	0.42	101.20	-3.75	-0.93	20.14	1.88	0.10	0.34	20	0.955	6.81	24	POS	0
Missouri	st3	6005.00	A/A	NE	-2.50	107.20	-6.63	-0.99	4.61	2.34	0.03	0.11	17	0.990	4.35	21	POS	0
Missouri	st3	6006.00	A/A	NE	8.55	94.29	-6.75	-1.53	3.61	2.94	0.05	0.27	17	0.968	7.07	21	POS	0
Missouri	st3	6007.00	A/A	NE	0.50	107.50	-6.60	-1.15	4.76	2.59	0.04	0.16	17	0.985	5.43	21	POS	0
Missouri	st3	6009.00	A/A	NE	0.13	88.51	-6.68	-1.40	3.20	2.80	0.05	0.23	20	0.971	6.90	24	POS	0
Missouri	st3	6010.00	A/A	NE	-0.08	83.85	-6.87	-0.97	3.08	2.94	0.05	0.14	20	0.975	5.60	24	POS	0
Missouri	st3	6011.00	A/A	NE	8.43	107.20	-6.43	-1.14	8.44	3.79	0.06	0.26	17	0.958	8.21	21	POS	0
Missouri	st3	6502.00	A/A	NE	-0.76	102.40	-6.01	-0.99	8.73	4.54	0.08	0.26	20	0.923	11.51	24	POS	0
Missouri	st3	6503.00	A/A	NE	-0.11	96.59	-6.59	-1.16	4.32	3.63	0.06	0.21	20	0.963	8.25	24	POS	0
Missouri	st3	6504.00	A/A	NE	3.78	87.49	-6.08	-1.40	5.40	2.92	0.06	0.33	20	0.939	8.89	24	POS	0
Missouri	st3	6005.00	A/A	NE-TC	-1.52	108.30	-6.18	-1.20	10.45	4.75	0.11	0.43	14	0.925	13.50	18	POS	0
Missouri	st3	6006.00	A/A	NE-TC	-12.70	100.60	-6.19	-0.76	12.27	2.77	0.07	0.17	14	0.975	6.70	18	POS	0
Missouri	st3	6007.00	A/A	NE-TC	7.76	117.80	-6.33	-1.04	6.05	2.93	0.08	0.18	14	0.975	7.87	18	POS	0
Missouri	st3	6009.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6010.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6011.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6502.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6503.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6504.00	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6009b	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6009.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6010.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6011.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6502.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6503.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	6504.00	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	6009b	A/A	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	6005.00	A/A	Tamox	3.80	100.40	-7.62	-1.03	2.39	2.53	0.05	0.13	14	0.988	5.11	18	POS	0
Missouri	st3	6006.00	A/A	Tamox	5.20	94.58	-7.68	-0.92	1.11	1.30	0.03	0.06	12	0.997	2.23	16	POS	0
Missouri	st3	6007.00	A/A	Tamox	31.12	115.20	.	.	8.17	19.92	.	.	14	0.691	24.51	18	POS	0
Missouri	st3	6005.00	A/A	Zear	10.39	130.30	-7.11	-0.85	5.45	5.34	0.10	0.17	14	0.969	9.94	18	POS	0
Missouri	st3	6006.00	A/A	Zear	5.68	92.33	-7.43	-1.01	2.71	2.61	0.06	0.15	14	0.983	5.47	18	POS	0
Missouri	st3	6007.00	A/A	Zear	9.74	122.60	-7.29	-1.06	3.50	3.54	0.07	0.16	14	0.982	7.45	18	POS	0
Ceetox	st4	20090903A	A/A	BPA-1	4.22	92.39	-5.57	-0.97	1.33	0.86	0.03	0.06	20	0.996	2.72	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st4	20090905A	A/A	BPA-1	3.11	99.32	-5.68	-0.95	1.40	0.96	0.03	0.07	20	0.996	2.92	24	POS	0
Ceetox	st4	20090907A	A/A	BPA-1	9.59	145.10	-5.40	-0.99	2.02	1.43	0.04	0.08	20	0.995	4.38	24	POS	1
Ceetox	st4	20090930A	A/A	BPA-1	9.33	87.70	-5.48	-1.02	2.17	1.40	0.06	0.12	20	0.985	4.50	24	POS	0
Ceetox	st4	20090903A	A/A	BPA-2	7.46	103.10	-5.35	-0.96	4.14	2.61	0.09	0.18	20	0.966	8.27	24	POS	0
Ceetox	st4	20090905A	A/A	BPA-2	6.55	117.80	-5.53	-0.88	4.77	3.29	0.10	0.18	20	0.966	9.74	24	POS	0
Ceetox	st4	20090907A	A/A	BPA-2	14.35	174.10	-5.29	-0.97	6.41	4.70	0.14	0.21	20	0.967	14.04	24	POS	1
Ceetox	st4	20090930A	A/A	BPA-2	14.96	103.20	-5.26	-0.99	4.74	3.01	0.11	0.23	20	0.947	9.64	24	POS	0
Ceetox	st4	20090903A	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090905A	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090907A	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Ceetox	st4	20090930A	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090903A	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090905A	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090907A	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Ceetox	st4	20090930A	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090903A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st4	20090905A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st4	20090907A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Ceetox	st4	20090930A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st4	20090903A	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090905A	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090907A	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Ceetox	st4	20090930A	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090903A	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090905A	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090907A	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Ceetox	st4	20090930A	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090903A	A/A	E2	1.73	113.90	-8.35	-1.58	3.21	2.74	0.04	0.23	20	0.979	7.67	24	POS	0
Ceetox	st4	20090905A	A/A	E2	2.84	116.10	-8.65	-1.30	2.69	2.99	0.04	0.16	20	0.983	6.64	24	POS	0
Ceetox	st4	20090907A	A/A	E2	5.99	176.80	-8.41	-1.37	5.80	6.27	0.07	0.24	20	0.967	14.49	24	POS	1
Ceetox	st4	20090930A	A/A	E2	9.64	106.40	-8.39	-1.76	4.07	3.51	0.05	0.41	20	0.954	10.00	24	POS	0
Ceetox	st4	20090903A	A/A	Gen-1	5.19	110.50	-6.49	-1.21	2.96	2.99	0.08	0.20	20	0.975	8.39	24	POS	0
Ceetox	st4	20090905A	A/A	Gen-1	9.13	117.70	-6.72	-0.88	4.38	5.40	0.13	0.24	20	0.947	12.13	24	POS	0
Ceetox	st4	20090907A	A/A	Gen-1	20.80	169.60	-6.58	-1.62	5.26	5.99	0.24	0.98	20	0.955	16.16	24	POS	1
Ceetox	st4	20090930A	A/A	Gen-1	19.23	107.40	-6.47	-1.45	4.32	4.36	0.17	0.49	20	0.926	12.62	24	POS	0
Ceetox	st4	20090903B	A/A	Gen-2	1.18	93.45	-7.27	-0.60	5.41	8.28	0.18	0.20	20	0.904	12.95	24	POS	0
Ceetox	st4	20090905B	A/A	Gen-2	3.63	93.75	-6.60	-1.28	1.81	1.83	0.05	0.15	20	0.987	5.19	24	POS	0
Ceetox	st4	20090907B	A/A	Gen-2	7.30	144.00	-6.49	-0.89	3.22	3.76	0.08	0.14	20	0.982	8.77	24	POS	1
Ceetox	st4	20090930B	A/A	Gen-2	20.62	85.97	.	.	3.93	3.99	.	.	20	0.890	11.85	24	POS	0
Ceetox	st4	20090903A	A/A	HPTE-1	0.53	89.68	-6.41	-1.25	1.46	1.43	0.05	0.13	20	0.992	4.10	24	POS	0
Ceetox	st4	20090905A	A/A	HPTE-1	1.86	96.84	-6.63	-1.03	1.17	1.20	0.03	0.07	20	0.995	3.20	24	POS	0
Ceetox	st4	20090907A	A/A	HPTE-1	5.40	135.30	-6.31	-1.08	4.75	4.81	0.11	0.23	20	0.959	13.13	24	POS	1

Table C-1. CERl Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Ceetox	st4	20090930A	A/A	HPTE-1	7.98	89.30	-6.41	-1.04	2.80	2.73	0.09	0.21	20	0.965	7.52	24	POS	0	
Ceetox	st4	20090903B	A/A	HPTE-2	2.97	105.40	-6.29	-1.20	2.79	2.73	0.07	0.20	20	0.977	7.76	24	POS	0	
Ceetox	st4	20090905B	A/A	HPTE-2	3.98	118.80	-6.46	-1.05	3.00	3.08	0.08	0.16	20	0.979	8.29	24	POS	0	
Ceetox	st4	20090907B	A/A	HPTE-2	8.52	174.30	-6.29	-1.05	4.37	4.63	0.10	0.18	20	0.978	12.19	24	POS	1	
Ceetox	st4	20090930B	A/A	HPTE-2	4.47	104.10	-6.27	-1.26	2.65	2.60	0.07	0.21	20	0.978	7.45	24	POS	0	
Ceetox	st4	20090903A	A/A	NE	3.85	96.40	-5.53	-1.36	2.72	0.99	0.02	0.14	20	0.990	3.29	24	POS	0	
Ceetox	st4	20090905A	A/A	NE	3.18	101.00	-5.79	-1.05	1.62	0.72	0.01	0.05	20	0.997	2.00	24	POS	0	
Ceetox	st4	20090907A	A/A	NE	12.50	135.50	-5.55	-1.31	8.78	4.10	0.09	0.31	20	0.933	12.83	24	POS	1	
Ceetox	st4	20090930A	A/A	NE	14.38	90.61	-5.54	-1.24	5.41	1.98	0.06	0.29	20	0.950	6.31	24	POS	0	
Ceetox	st4	20090903A	A/A	Nethdrone	8.66	91.90	-5.52	-1.09	1.34	0.89	0.03	0.08	20	0.995	2.89	24	POS	0	
Ceetox	st4	20090905A	A/A	Nethdrone-1	12.94	103.90	-5.77	-1.24	3.84	2.91	0.10	0.40	20	0.959	9.16	24	POS	0	
Ceetox	st4	20090907A	A/A	Nethdrone-1	19.63	148.50	-5.25	-0.99	3.07	2.16	0.08	0.12	20	0.988	6.63	24	POS	1	
Ceetox	st4	20090930A	A/A	Nethdrone-1	13.75	91.49	-5.25	-1.20	3.22	2.09	0.08	0.25	20	0.965	6.95	24	POS	0	
Ceetox	st4	20090903A	A/A	Nethdrone-2	4.80	88.74	-5.61	-0.88	4.99	3.16	0.12	0.22	20	0.940	9.67	24	POS	0	
Ceetox	st4	20090905A	A/A	Nethdrone-2	5.72	97.08	-5.75	-1.10	2.08	1.48	0.05	0.14	20	0.989	4.67	24	POS	0	
Ceetox	st4	20090907A	A/A	Nethdrone-2	0.37	145.50	-5.40	-0.64	5.12	3.46	0.09	0.09	20	0.982	8.61	24	POS	1	
Ceetox	st4	20090930A	A/A	Nethdrone-2	8.70	89.86	-5.50	-0.93	1.52	0.96	0.04	0.07	20	0.994	3.01	24	POS	0	
Ceetox	st4	20090903A	A/A	Nethdrone-3	6.19	90.46	-5.48	-0.86	1.73	1.04	0.04	0.07	20	0.993	3.21	24	POS	0	
Ceetox	st4	20090905A	A/A	Nethdrone-3	6.21	102.90	-5.65	-0.92	2.01	1.39	0.05	0.09	20	0.992	4.18	24	POS	0	
Ceetox	st4	20090907A	A/A	Nethdrone-3	13.88	152.70	-5.34	-0.89	2.54	1.85	0.06	0.08	20	0.993	5.37	24	POS	1	
Ceetox	st4	20090930A	A/A	Nethdrone-3	11.71	89.40	-5.35	-1.06	2.39	1.52	0.06	0.15	20	0.982	4.94	24	POS	0	
Ceetox	st4	20090903B	A/A	Nethdrone-4	5.95	88.31	-5.39	-0.99	2.39	1.46	0.06	0.13	20	0.985	4.71	24	POS	0	
Ceetox	st4	20090905B	A/A	Nethdrone-4	7.34	101.00	-5.57	-1.03	2.18	1.47	0.05	0.11	20	0.989	4.67	24	POS	0	
Ceetox	st4	20090907B	A/A	Nethdrone-4	11.03	148.00	-5.34	-0.98	2.55	1.78	0.05	0.09	20	0.993	5.47	24	POS	1	
Ceetox	st4	20090930B	A/A	Nethdrone-4	5.98	89.13	-5.35	-0.79	2.69	1.44	0.06	0.10	20	0.986	4.36	24	POS	0	
Ceetox	st4	20090903A	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090905A	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090907A	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Ceetox	st4	20090930A	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090903B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090905B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090907B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Ceetox	st4	20090930B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	2206.00	A/A	BPA-1	14.79	89.87	.	.	2.70	2.22	.	.	20	0.966	7.16	24	POS	0	
Missouri	st4	2210.00	A/A	BPA-1	-10.31	84.30	-6.68	-1.05	1.78	1.77	0.05	0.11	20	0.989	4.85	24	POS	0	
Missouri	st4	2211.00	A/A	BPA-1	12.21	97.61	-6.23	-0.94	2.13	2.03	0.06	0.13	20	0.983	5.45	24	POS	0	
Missouri	st4	2301.00	A/A	BPA-2	-1.36	90.09	-6.59	-0.97	2.60	2.59	0.08	0.15	20	0.976	6.89	24	POS	0	
Missouri	st4	2302.00	A/A	BPA-2	1.64	92.76	-6.26	-1.16	2.20	2.07	0.06	0.19	20	0.983	5.93	24	POS	0	
Missouri	st4	2305.00	A/A	BPA-2	38.21	77.49	.	.	8.91	10.43	.	.	20	0.324	29.69	24	POS	0	
Missouri	st4	2206.00	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	2210.00	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st4	2211.00	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0	

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st4	2301.00	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	2302.00	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	2305.00	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	2206.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	2210.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	2211.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	2301.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	2302.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	2305.00	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	2206.00	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	2210.00	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	2211.00	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	2301.00	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	2302.00	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	2305.00	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	19	NEG	0
Missouri	st4	2206.00	A/A	E2	-2.72	93.03	-9.62	-1.11	2.47	5.03	0.05	0.18	20	0.966	7.04	24	POS	0
Missouri	st4	2210.00	A/A	E2	-3.93	86.51	-9.92	-1.19	2.94	6.73	0.07	0.28	19	0.940	8.60	23	POS	0
Missouri	st4	2211.00	A/A	E2	0.38	97.90	-9.29	-1.07	1.86	3.12	0.03	0.11	20	0.985	4.89	24	POS	0
Missouri	st4	2301.00	A/A	E2	2.45	86.14	-9.30	-1.01	2.33	3.11	0.04	0.13	18	0.981	4.83	22	POS	0
Missouri	st4	2302.00	A/A	E2	-0.93	97.29	-9.27	-1.43	2.13	3.34	0.04	0.19	20	0.980	6.18	24	POS	0
Missouri	st4	2305.00	A/A	E2	-5.81	89.56	-9.77	-0.92	3.43	7.42	0.08	0.20	19	0.947	8.39	23	POS	0
Missouri	st4	2206.00	A/A	Gen-1	14.01	91.53	.	.	2.53	2.79	.	.	20	0.962	7.87	24	POS	0
Missouri	st4	2210.00	A/A	Gen-1	79.16	34.50	-7.61	1.93	19.21	13.38	1.76	8.86	20	0.183	46.11	24	POS	0
Missouri	st4	2211.00	A/A	Gen-1	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st4	2301.00	A/A	Gen-2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Missouri	st4	2302.00	A/A	Gen-2	.	.	.	.	.	.	.	.	.	.	.	23	POS	0
Missouri	st4	2305.00	A/A	Gen-2	50.00	254.80	.	.	0.03	852.90	.	.	19	0.824	32.34	23	POS	0
Missouri	st4	2206.00	A/A	HPTE-1	17.08	91.97	-6.95	-1.69	3.40	3.48	0.08	1.33	17	0.947	9.01	21	POS	0
Missouri	st4	2210.00	A/A	HPTE-1	1.27	79.87	-7.39	-1.18	2.73	3.82	0.12	0.36	20	0.950	8.76	24	POS	0
Missouri	st4	2211.00	A/A	HPTE-1	12.47	99.66	-7.04	-1.03	2.76	3.78	0.09	0.25	20	0.961	8.43	24	POS	0
Missouri	st4	2301.00	A/A	HPTE-2	1.73	71.71	-7.49	-1.36	3.13	4.20	0.19	0.56	19	0.925	9.87	23	POS	0
Missouri	st4	2302.00	A/A	HPTE-2	10.11	101.20	-6.98	-1.40	3.16	4.02	0.08	0.62	20	0.953	9.99	24	POS	0
Missouri	st4	2305.00	A/A	HPTE-2	26.32	73.76	.	.	6.26	8.91	.	.	20	0.535	21.72	24	POS	0
Missouri	st4	2206.00	A/A	NE	-3.82	96.23	-6.88	-0.86	3.30	3.47	0.04	0.11	20	0.980	5.73	24	POS	0
Missouri	st4	2210.00	A/A	NE	-6.48	94.34	-7.05	-1.17	3.26	4.08	0.05	0.19	19	0.971	7.52	23	POS	0
Missouri	st4	2211.00	A/A	NE	1.02	91.42	-6.79	-1.41	2.16	2.13	0.03	0.16	20	0.986	4.99	24	POS	0
Missouri	st4	2301.00	A/A	NE	7.80	83.63	-6.73	-1.09	4.57	4.12	0.08	0.26	20	0.933	8.70	24	POS	0
Missouri	st4	2302.00	A/A	NE	-0.97	98.03	-6.91	-1.07	2.41	2.71	0.03	0.12	20	0.986	5.08	24	POS	0
Missouri	st4	2305.00	A/A	NE	7.68	79.57	-6.94	-1.52	5.34	5.72	0.11	0.60	20	0.862	13.33	24	POS	0
Missouri	st4	2206.00	A/A	Nethdrone-1	26.88	90.50	-6.12	-1.28	3.37	2.62	0.10	0.36	17	0.944	7.55	21	POS	0
Missouri	st4	2210.00	A/A	Nethdrone-1	17.47	81.77	-6.84	-1.75	3.05	3.13	0.13	1.21	20	0.928	9.09	24	POS	0
Missouri	st4	2211.00	A/A	Nethdrone-1	24.21	96.97	-6.69	-1.30	4.09	4.50	0.19	0.71	20	0.899	12.07	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Missouri	st4	2206.00	A/A	Nethdrone-2	29.04	98.50	-6.04	-1.37	4.85	3.82	0.14	0.54	17	0.905	11.10	21	POS	0	
Missouri	st4	2210.00	A/A	Nethdrone-2	17.48	82.74	-6.72	-1.50	4.08	4.14	0.17	0.77	20	0.884	11.96	24	POS	0	
Missouri	st4	2211.00	A/A	Nethdrone-2	28.39	94.50	-6.40	-1.19	3.46	3.54	0.17	0.39	20	0.918	9.82	24	POS	0	
Missouri	st4	2301.00	A/A	Nethdrone-3	26.80	86.63	.	.	4.35	4.93	.	.	20	0.832	13.66	24	POS	0	
Missouri	st4	2302.00	A/A	Nethdrone-3	18.54	96.83	-6.52	-1.44	5.56	5.62	0.22	0.69	20	0.856	16.22	24	POS	0	
Missouri	st4	2305.00	A/A	Nethdrone-3	.	93.83	.	.	.	7.38	.	.	20	0.540	19.94	24	POS	0	
Missouri	st4	2301.00	A/A	Nethdrone-4	21.72	74.44	-6.79	-1.69	4.42	4.47	0.23	1.50	20	0.809	13.08	24	POS	0	
Missouri	st4	2302.00	A/A	Nethdrone-4	47.23	106.90	-6.11	-1.89	6.23	6.32	1.28	3.07	20	0.730	18.59	24	POS	0	
Missouri	st4	2305.00	A/A	Nethdrone-4	45.25	82.10	.	.	6.34	6.54	.	.	20	0.491	19.22	24	POS	0	
Missouri	st4	2206.00	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	2210.00	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0	
Missouri	st4	2211.00	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	2301.00	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	2302.00	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	2305.00	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Data below not used for standardized data analysis conducted by Battelle, Cincinnati, OH (see Battelle Data Analysis Reports, Appendixes F, G and H)																			
Lovelace	st1	39819.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0	
Lovelace	st1	39819.00	A/U	E2	7.57	160.60	-8.53	-0.82	13.77	21.13	0.21	0.35	20	0.802	29.89	24	POS	0	
Lovelace	st1	39819.00	A/U	NE	-4.78	191.50	-5.59	-0.78	8.93	4.85	0.06	0.10	20	0.982	9.72	24	POS	0	
Missouri	st1	5005.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st1	5005.00	A/U	E2	0.74	107.20	-8.91	-1.39	1.61	2.01	0.02	0.12	19	0.992	4.23	23	POS	0	
Missouri	st1	5005.00	A/U	NE	-3.31	108.80	-6.03	-0.66	8.18	4.13	0.06	0.12	20	0.968	6.88	24	POS	0	
Lovelace	st12	40207.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40297.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	1-29-2010T	A/U	DBP-TC	7.26	134.50	-3.81	-1.42	21.39	5.94	0.21	1.37	20	0.812	22.63	24	NEG	0	
Lovelace	st12	4-29-2010T	A/U	DBP-TC	11.16	99.00	-5.45	-0.66	12.22	7.18	0.28	0.34	20	0.799	19.07	24	NEG	0	
Lovelace	st12	40207.00	A/U	E2	-1.79	163.80	-8.97	-1.05	4.49	7.68	0.06	0.16	20	0.971	11.76	24	POS	0	
Lovelace	st12	40297.00	A/U	E2	8.09	104.60	-8.85	-1.28	7.22	9.14	0.12	0.51	20	0.844	18.52	24	POS	0	
Lovelace	st12	1-29-2010T	A/U	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	4-29-2010T	A/U	E2-TC	6.20	128.20	-9.78	-0.54	4.48	61.00	0.19	0.29	20	0.859	13.30	24	POS	0	
Lovelace	st12	1-29-2010T	A/U	EE2	-2.85	68.40	-9.72	-1.13	4.75	11.97	0.35	0.73	20	0.754	17.32	24	POS	0	
Lovelace	st12	4-29-2010T	A/U	EE2	4.18	196.20	-9.76	-0.40	3.50	143.50	0.13	0.16	20	0.945	8.48	24	POS	0	
Lovelace	st12	40207.00	A/U	NE	0.84	167.10	-5.61	-0.65	24.73	13.83	0.18	0.25	20	0.870	22.06	24	POS	0	
Lovelace	st12	40297.00	A/U	NE	20.13	121.40	-6.30	-1.07	10.65	9.72	0.17	0.46	20	0.820	20.27	24	POS	0	
Lovelace	st2	3-27-2009T	A/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st2	39899.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st2	39899.00	A/U	E2	-4.97	184.10	-8.69	-0.88	14.87	23.67	0.17	0.34	20	0.827	34.40	24	POS	0	
Lovelace	st2	3-27-2009T	A/U	EE2	-1.82	.	.	-0.68	2.22	.	.	0.18	20	0.863	7.02	24	POS	0	
Lovelace	st2	3-27-2009T	A/U	Hexestrol	11.75	.	-9.28	-0.47	9.80	.	0.53	0.34	20	0.433	33.67	24	POS	0	
Lovelace	st2	39899.00	A/U	NE	15.05	220.70	-5.66	-1.15	11.61	7.49	0.11	0.23	20	0.953	19.16	24	POS	0	
Lovelace	st2	3-27-2009T	A/U	NPhenol	43.63	100.50	.	.	5.78	3.77	.	.	20	0.810	14.08	24	POS	0	
Ceetox	st3	20090228B	A/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	

Table C-1. CERl Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st3	20090305B	A/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090401B	A/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090228A	A/U	BaA	-31.18	93.07	-3.77	-0.63	42.51	1.28	0.07	0.16	20	0.978	4.19	24	NEG	0
Ceetox	st3	20090305A	A/U	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090401A	A/U	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090228A	A/U	BPA	11.08	95.60	-7.45	-1.24	3.61	5.33	0.14	0.36	20	0.919	12.01	24	POS	0
Ceetox	st3	20090305A	A/U	BPA	-3.41	103.60	-5.22	-0.97	3.17	1.82	0.05	0.13	20	0.985	5.87	24	POS	0
Ceetox	st3	20090401A	A/U	BPA	2.03	110.30	-5.10	-0.88	3.44	1.87	0.06	0.11	20	0.985	5.89	24	POS	0
Ceetox	st3	20090228A	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090305A	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090401A	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090228A	A/U	DBP-TC	9.44	97.62	-4.90	-1.23	3.04	1.52	0.05	0.26	20	0.982	5.31	24	NEG	0
Ceetox	st3	20090305A	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090401A	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090228A	A/U	DHT	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st3	20090305A	A/U	DHT	21.06	94.80	-4.85	-1.13	2.32	1.22	0.05	0.20	20	0.985	4.14	24	POS	0
Ceetox	st3	20090401A	A/U	DHT	25.70	103.90	-4.75	-1.21	1.80	0.98	0.05	0.18	20	0.991	3.36	24	POS	0
Ceetox	st3	20090228A	A/U	E2	2.01	119.90	-8.72	-1.01	3.44	4.43	0.05	0.14	20	0.975	8.00	24	POS	0
Ceetox	st3	20090305A	A/U	E2	0.07	125.50	-8.57	-1.25	3.02	3.27	0.04	0.15	20	0.984	7.28	24	POS	0
Ceetox	st3	20090401A	A/U	E2	3.77	122.40	-8.61	-1.13	3.48	4.04	0.05	0.16	20	0.975	8.25	24	POS	0
Ceetox	st3	20090228A	A/U	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st3	20090305A	A/U	E2-TC	7.70	118.90	-7.74	-1.94	2.78	4.08	0.15	1.09	20	0.969	9.61	24	POS	0
Ceetox	st3	20090401A	A/U	E2-TC	12.27	115.60	-7.51	-2.04	3.07	4.37	0.15	0.64	20	0.960	10.58	24	POS	0
Ceetox	st3	20090228A	A/U	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090305A	A/U	ELactone	38.66	105.30	-3.30	-1.36	16.62	1.71	0.32	1.23	20	0.924	6.48	24	NEG	0
Ceetox	st3	20090401A	A/U	ELactone	38.89	102.90	-3.52	-1.09	4.98	1.43	0.13	0.28	20	0.952	5.32	24	NEG	0
Ceetox	st3	20090228A	A/U	Heptylphenol	31.02	95.80	-5.26	-1.16	2.49	1.69	0.10	0.21	20	0.969	5.53	24	POS	0
Ceetox	st3	20090305A	A/U	Heptylphenol	-3.0E+11	95.84	-3.62	-0.51	2.5E+14	4.28	0.40	0.41	20	0.862	13.67	24	POS	0
Ceetox	st3	20090401A	A/U	Heptylphenol	-86.20	105.50	-3.54	-0.74	109.00	1.01	0.07	0.20	20	0.990	3.51	24	POS	0
Ceetox	st3	20090228A	A/U	Kepone	9.45	111.50	-5.32	-0.95	5.26	3.37	0.11	0.21	20	0.952	10.60	24	POS	0
Ceetox	st3	20090305A	A/U	Kepone	7.10	117.90	-4.04	-0.86	13.99	3.57	0.14	0.27	20	0.912	12.62	24	POS	0
Ceetox	st3	20090401A	A/U	Kepone	12.07	113.60	-4.43	-1.14	7.43	2.90	0.12	0.30	20	0.942	10.65	24	POS	0
Ceetox	st3	20090228A	A/U	NE	.	101.20	.	.	.	0.95	.	.	20	0.988	3.67	24	POS	0
Ceetox	st3	20090305A	A/U	NE	.	106.50	.	.	.	1.63	.	.	20	0.971	6.30	24	POS	0
Ceetox	st3	20090401A	A/U	NE	3.91	104.70	-4.76	-0.95	35.94	1.00	0.08	0.27	20	0.985	2.93	24	POS	0
Ceetox	st3	20090228A	A/U	NE-TC	10.29	92.57	-7.93	-2.09	3.06	4.86	0.12	3.22	20	0.929	10.74	24	POS	0
Ceetox	st3	20090305A	A/U	NE-TC	-0.51	101.70	-4.67	-1.18	2.19	0.88	0.03	0.10	20	0.995	3.23	24	POS	0
Ceetox	st3	20090401A	A/U	NE-TC	5.27	97.94	-4.81	-1.10	1.90	0.82	0.03	0.10	20	0.995	2.90	24	POS	0
Ceetox	st3	20090228B	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090305B	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090401B	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090228A	A/U	P4	7.33	90.97	-4.55	-1.03	3.30	1.18	0.05	0.13	20	0.984	4.30	24	NEG	0

Table C-1. CERl Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st3	20090305A	A/U	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090401A	A/U	P4	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090228A	A/U	Tamox	32.17	110.90	-7.43	-1.74	10.18	14.72	0.81	2.64	20	0.545	34.96	24	POS	0
Ceetox	st3	20090305A	A/U	Tamox	-1.79	116.00	-6.34	-1.06	4.07	4.01	0.09	0.21	20	0.965	11.03	24	POS	0
Ceetox	st3	20090401A	A/U	Tamox	10.15	113.70	-6.82	-1.82	5.09	5.56	0.20	1.99	20	0.919	15.53	24	POS	0
Ceetox	st3	20090228A	A/U	Zear	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st3	20090305A	A/U	Zear	11.97	98.56	-6.87	-1.87	3.53	3.84	0.14	1.81	20	0.943	10.78	24	POS	0
Ceetox	st3	20090401A	A/U	Zear	18.94	98.59	-7.31	-1.53	5.20	7.47	0.21	0.73	20	0.832	17.65	24	POS	0
Freyberger	st3	A1	A/U	BPA	-2.02	94.38	-5.73	-0.89	1.21	0.80	0.03	0.05	20	0.997	2.42	24	POS	0
Freyberger	st3	CODE A1	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	CODE A1	A/U	E2	0.27	95.85	-9.09	-1.12	1.13	1.61	0.02	0.07	20	0.995	2.87	24	POS	0
Freyberger	st3	CODE A1	A/U	E2-TC	8.60	87.07	.	.	4.66	13.99	.	.	20	0.766	16.54	24	POS	0
Freyberger	st3	CODE A1	A/U	ELactone	3.20	87.89	-4.34	-0.79	2.30	0.50	0.02	0.05	20	0.997	1.74	24	NEG	0
Freyberger	st3	CODE A1	A/U	Kepona	4.18	95.60	-5.11	-1.19	1.09	0.64	0.02	0.08	20	0.997	2.15	24	POS	0
Freyberger	st3	CODE A1	A/U	NE	1.75	69.01	-6.59	-1.73	11.05	7.76	0.22	1.31	20	0.645	23.09	24	POS	0
Freyberger	st3	CODE A1	A/U	Tamox	-2.16	94.26	-7.63	-1.09	0.80	0.81	0.02	0.05	20	0.998	2.21	24	POS	0
Missouri	st3	6001.00	A/U	BPA	11.63	97.29	-5.51	-0.94	5.35	3.53	0.13	0.27	20	0.930	10.95	24	POS	1
Missouri	st3	6002.00	A/U	BPA	9.66	105.90	-5.63	-0.79	7.74	5.40	0.18	0.29	20	0.894	15.12	24	POS	1
Missouri	st3	6001.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	1
Missouri	st3	6002.00	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Missouri	st3	6001.00	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	18	NEG	1
Missouri	st3	6002.00	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	17	NEG	1
Missouri	st3	6001.00	A/U	DHT	.	.	.	.	.	.	.	.	.	.	.	18	POS	1
Missouri	st3	6002.00	A/U	DHT	2.98	90.62	-5.18	-0.98	623.90	4.78	0.73	3.64	14	0.709	13.10	18	POS	1
Missouri	st3	6001.00	A/U	E2	3.80	98.78	-8.89	-1.54	1.85	2.17	0.03	0.17	20	0.988	4.94	24	POS	1
Missouri	st3	6002.00	A/U	E2	-2.22	94.92	-9.04	-1.07	1.16	1.58	0.02	0.06	20	0.995	2.83	24	POS	1
Missouri	st3	6001.00	A/U	E2-TC	8.30	91.58	-8.90	-1.69	2.07	4.32	0.06	0.77	14	0.973	6.13	18	POS	1
Missouri	st3	6002.00	A/U	E2-TC	5.27	99.97	-8.91	-1.51	1.95	4.79	0.05	0.52	14	0.980	5.72	18	POS	1
Missouri	st3	6001.00	A/U	NE	3.70	106.70	-7.78	-1.19	1.66	2.82	0.02	0.12	14	0.994	3.26	18	POS	1
Missouri	st3	6002.00	A/U	NE	2.38	92.34	-7.34	-1.63	3.65	4.83	0.06	0.37	17	0.952	9.18	21	POS	1
Missouri	st3	6001.00	A/U	NE-TC	7.12	105.90	-6.10	-0.79	8.55	2.62	0.08	0.16	14	0.973	6.41	18	POS	1
Missouri	st3	6002.00	A/U	NE-TC	-23.60	99.01	-6.39	-0.47	31.89	5.17	0.11	0.16	14	0.962	7.42	18	POS	1
Missouri	st3	6001.00	A/U	Tamox	6.60	83.48	-7.17	-3.44	3.68	3.65	1.63	33.82	14	0.953	8.96	18	POS	1
Missouri	st3	6002.00	A/U	Tamox	0.68	103.40	-7.61	-0.84	3.95	4.35	0.08	0.16	14	0.975	7.53	18	POS	1
Missouri	st3	6001.00	A/U	Zear	12.00	115.30	-7.38	-0.74	7.43	17.75	0.15	0.32	11	0.922	12.10	15	POS	1
Missouri	st3	6002.00	A/U	Zear	6.61	91.52	-7.39	-1.05	3.68	5.57	0.09	0.25	11	0.966	7.47	15	POS	1
Lovelace	st12	40106.00	U/	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	10-20-2009T	U/	DBP-TC	-5.22	151.00	-4.82	-0.93	6.73	2.33	0.07	0.12	20	0.983	8.23	24	NEG	0
Lovelace	st12	40106.00	U/	E2	1.46	169.00	-8.62	-0.88	3.85	5.87	0.05	0.10	20	0.983	8.77	24	POS	0
Lovelace	st12	5-14-2010JCS	U/	E2	.	.	.	.	.	.	.	.	.	.	.	3	POS	0
Lovelace	st12	10-20-2009T	U/	E2-TC	-4.3E+05	.	-13.68	.	1.2E+10	.	8.60	.	20	0.846	8.61	24	POS	0
Lovelace	st12	5-14-2010JCS	U/	E2-TC	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Lovelace	st12	5-14-2010JCS	U/	E2-TC2	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	10-20-2009T	U/	EE2	-4.5E+08	.	.	-0.11	2.7E+11	.	.	0.05	20	0.889	5.77	24	POS	0	
Lovelace	st1	39821.00	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st1	39821.00	U/A	E2	0.13	152.20	-9.43	-0.55	13.85	79.51	0.21	0.40	20	0.728	25.63	24	POS	0	
Lovelace	st1	39821.00	U/A	NE	-2.48	129.20	-6.03	-0.80	6.22	3.87	0.05	0.11	20	0.977	7.63	24	POS	0	
Freyberger	st2	A	U/A	ButylPar	-14.60	94.77	-4.80	-0.54	6.29	1.30	0.05	0.06	20	0.991	3.63	24	POS	1	
Freyberger	st2	A	U/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Freyberger	st2	A	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1	
Freyberger	st2	A	U/A	E2	.	.	.	.	.	.	.	.	.	.	.	24	POS	1	
Freyberger	st2	A	U/A	Equol	1.31	94.71	-7.22	-0.61	1.54	2.31	0.05	0.06	20	0.992	3.68	24	POS	1	
Freyberger	st2	A	U/A	Hexestrol	-0.33	91.37	-7.96	-1.04	0.54	0.98	0.02	0.05	20	0.998	1.80	24	POS	1	
Freyberger	st2	A	U/A	NE	-0.33	98.63	-6.32	-0.88	1.98	1.31	0.02	0.06	20	0.995	2.73	24	POS	1	
Lovelace	st2	39889.00	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1	
Lovelace	st2	39889.00	U/A	E2	1.89	.	-9.43	-0.48	33.86	.	2.99	1.31	20	0.528	89.15	24	POS	1	
Lovelace	st2	39889.00	U/A	NE	1.12	108.60	-6.21	-1.30	4.76	3.12	0.05	0.22	20	0.968	8.48	24	POS	1	
Ceetox	st3	20090415.00	U/A	E2	0.93	105.60	-9.55	-1.60	1.43	2.84	0.02	0.16	20	0.989	4.71	24	POS	0	
Ceetox	st3	20090415.00	U/A	NE	1.51	93.38	-5.73	-1.11	2.96	1.15	0.03	0.11	20	0.990	3.39	24	POS	0	
Lovelace	st3	39995.00	U/A	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st3	39995.00	U/A	BPA	19.77	129.90	-5.10	-0.88	4.28	2.75	0.10	0.15	20	0.973	8.37	24	POS	0	
Lovelace	st3	39995.00	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st3	39995.00	U/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st3	39995.00	U/A	DHT	34.40	144.40	-4.58	-1.27	6.76	2.38	0.13	0.31	20	0.957	8.98	24	POS	0	
Lovelace	st3	39995.00	U/A	E2	4.76	112.20	-8.64	-2.88	3.97	3.94	0.05	0.70	20	0.957	11.50	24	POS	0	
Lovelace	st3	39995.00	U/A	E2-TC	-2.46	130.70	-9.10	-1.57	2.12	3.22	0.03	0.16	20	0.989	6.30	24	POS	0	
Lovelace	st3	39995.00	U/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st3	39995.00	U/A	Kepone	38.28	133.10	.	.	7.49	2.94	.	.	20	0.914	11.40	24	POS	0	
Lovelace	st3	39995.00	U/A	NE	9.74	133.30	-5.87	-0.98	4.07	2.47	0.04	0.10	20	0.986	5.84	24	POS	0	
Lovelace	st3	39995.00	U/A	Zear	19.06	123.10	-8.15	-0.49	5.96	17.68	0.24	0.19	20	0.886	13.89	24	POS	0	
Lovelace	st1	39813.00	U/U	DBP	44.33	58.93	.	.	121.40	1.26	.	.	17	0.621	4.38	21	NEG	0	
Lovelace	st1	39813.00	U/U	E2	2.47	88.52	-10.99	-0.61	1.03	33.56	0.04	0.14	20	0.981	2.30	24	POS	1	
Lovelace	st1	39813.00	U/U	NE	3.91	58.70	-6.88	-0.89	2.28	1.21	0.07	0.11	20	0.982	2.77	24	POS	0	
Lovelace	st12	40113.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40155.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	40312.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	10-27-2009T	U/U	DBP-TC	-18.49	127.50	-3.79	-0.69	33.47	3.43	0.12	0.23	20	0.936	11.44	24	NEG	0	
Lovelace	st12	12-8-2009T	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (EZ/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Lovelace	st12	5-14-2010T	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	5-14-2010T2	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	5-14-2010T3	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	5-14-2010T4	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	5-14-2010T5	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	5-14-2010T6	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	5-14-2010T7	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Lovelace	st12	40113.00	U/U	E2	20.38	142.30	-8.72	-1.36	6.89	9.64	0.13	0.44	20	0.894	18.75	24	POS	0	
Lovelace	st12	40151.00	U/U	E2	0.40	165.00	-8.90	-0.97	3.93	6.79	0.05	0.12	20	0.978	9.86	24	POS	0	
Lovelace	st12	40155.00	U/U	E2	-3.11	245.30	-8.69	-0.61	15.11	47.90	0.18	0.23	20	0.879	29.39	24	POS	0	
Lovelace	st12	40312.00	U/U	E2	9.21	241.60	-8.51	-0.99	5.42	8.76	0.07	0.12	20	0.980	13.45	24	POS	0	
Lovelace	st12	5-14-2010_2	U/U	E2	-25.48	465.50	-6.65	-0.32	64.55	105.60	0.25	0.14	20	0.940	30.97	24	POS	0	
Lovelace	st12	40312.00	U/U	E2-TC	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	10-27-2009T	U/U	E2-TC	-1.8E+07	.	.	.	5.9E+12	.	.	.	20	0.873	10.94	24	POS	0	
Lovelace	st12	12-8-2009T	U/U	E2-TC	-9.67	.	-10.23	-0.21	17.22	.	0.37	0.72	20	0.500	23.72	24	POS	0	
Lovelace	st12	5-14-2010T	U/U	E2-TC	-5.92	156.10	-8.40	-0.58	7.38	9.32	0.15	0.14	20	0.951	15.99	24	POS	0	
Lovelace	st12	5-14-2010T2	U/U	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T2	U/U	E2-TC	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	5-14-2010T3	U/U	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T4	U/U	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T5	U/U	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T6	U/U	E2-TC	-5.92	156.10	-8.40	-0.58	7.38	9.32	0.15	0.14	20	0.951	15.99	24	POS	0	
Lovelace	st12	5-14-2010T7	U/U	E2-TC	-5.92	156.10	-8.40	-0.58	7.38	9.32	0.15	0.14	20	0.951	15.99	24	POS	0	
Lovelace	st12	40312.00	U/U	E2-TC2	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	5-14-2010T3	U/U	E2-TC2	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	5-14-2010T4	U/U	E2-TC2	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	5-14-2010T5	U/U	E2-TC2	5.54	158.90	-8.83	-1.39	3.98	5.27	0.08	0.44	20	0.972	12.79	24	POS	0	
Lovelace	st12	5-14-2010T6	U/U	E2-TC2	-81.20	55.82	-10.08	-1.39	3.56	4.71	0.29	0.44	20	0.972	11.43	24	POS	0	
Lovelace	st12	5-14-2010T7	U/U	E2-TC2	-81.20	55.82	-10.08	-1.39	3.56	4.71	0.29	0.44	20	0.972	11.43	24	POS	0	
Lovelace	st12	12-4-2090T	U/U	E2-TC altdil	17.32	.	.	.	3.23	.	.	.	20	0.413	14.82	24	POS	0	
Lovelace	st12	12-4-2090T	U/U	E2-TC altmix	7.41	.	.	.	4.58	.	.	.	20	0.761	17.35	24	POS	0	
Lovelace	st12	12-4-2090T	U/U	E2-TC in20%DMSO	2.82	.	-4.11	0.87	3.24	.	0.10	0.46	20	0.740	13.03	24	POS	0	
Lovelace	st12	12-4-2090T	U/U	E2-TC stddil	3.34	.	-4.18	0.99	3.49	.	0.54	0.59	20	0.776	14.21	24	POS	0	
Lovelace	st12	10-27-2009T	U/U	EE2	-3.3E+07	289.70	-7.51	-0.03	7.3E+12	449.3	0.23	0.12	20	0.954	10.50	24	POS	0	
Lovelace	st12	12-8-2009T	U/U	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T	U/U	EE2	15.22	152.80	-7.86	-0.69	7.03	7.18	0.19	0.17	20	0.940	15.78	24	POS	0	
Lovelace	st12	5-14-2010T2	U/U	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T3	U/U	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T4	U/U	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T5	U/U	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st12	5-14-2010T6	U/U	EE2	15.22	152.80	-7.86	-0.69	7.03	7.18	0.19	0.17	20	0.940	15.78	24	POS	0	

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st12	5-14-2010T7	U/U	EE2	15.22	152.80	-7.86	-0.69	7.03	7.18	0.19	0.17	20	0.940	15.78	24	POS	0
Lovelace	st12	40113.00	U/U	NE	-0.29	166.40	-5.18	-0.54	43.24	14.92	0.21	0.26	20	0.851	20.76	24	POS	0
Lovelace	st12	40151.00	U/U	NE	7.29	.	.	.	1.51	.	.	.	20	0.954	5.84	24	POS	0
Lovelace	st12	40155.00	U/U	NE	18.31	149.10	-5.61	-1.01	4.71	2.64	0.05	0.11	20	0.984	6.58	24	POS	0
Lovelace	st12	40312.00	U/U	NE	33.78	234.30	-5.28	-1.19	8.23	4.94	0.13	0.17	20	0.975	13.33	24	POS	0
Lovelace	st12	5-14-2010_2	U/U	NE	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st2	20090218.00	U/U	ButylPar	3.51	116.40	-4.72	-0.69	8.44	3.17	0.11	0.15	20	0.958	9.53	24	POS	0
Ceetox	st2	20090218.00	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090218.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Ceetox	st2	20090218.00	U/U	DDT	-0.17	98.29	-5.38	-0.86	3.80	2.21	0.07	0.14	20	0.976	6.86	24	POS	0
Ceetox	st2	20090218.00	U/U	DES	-3.92	90.93	-8.66	-1.18	0.94	2.49	0.04	0.10	20	0.992	3.51	24	POS	0
Ceetox	st2	20090218.00	U/U	E2	-1.48	127.40	-8.62	-0.69	6.41	9.44	0.10	0.15	17	0.953	11.70	21	POS	0
Ceetox	st2	20090218.00	U/U	EE2	6.21	108.80	.	.	2.94	4.86	.	.	20	0.955	10.49	24	POS	0
Ceetox	st2	20090218.00	U/U	Equol	6.64	113.20	-6.61	-1.33	5.24	5.38	0.15	0.49	20	0.925	15.19	24	POS	0
Ceetox	st2	20090218.00	U/U	Gen	15.81	94.50	-6.52	-1.33	5.48	5.53	0.20	0.57	20	0.862	15.80	24	POS	0
Ceetox	st2	20090218.00	U/U	Hexestrol	-3.16	94.24	-8.02	-1.37	1.08	1.90	0.03	0.21	20	0.993	3.75	24	POS	0
Ceetox	st2	20090218.00	U/U	NE	-6366.00	111.80	-5.46	-0.25	6.E+05	22.03	0.15	0.33	17	0.924	10.35	21	POS	0
Ceetox	st2	20090218.00	U/U	NPhenol	2.71	98.32	-5.36	-1.06	1.80	1.14	0.04	0.09	20	0.993	3.73	24	POS	0
Lovelace	st2	39875.00	U/U	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	3-11-2009T	U/U	ButylPar	-3.E+08	127.90	-3.66	-0.24	8.E+12	7.71	0.27	0.06	20	0.863	15.66	24	POS	1
Lovelace	st2	3-6-2009T	U/U	ButylPar	23.50	248.90	-3.94	-0.80	17.48	7.83	0.25	0.22	20	0.938	24.54	24	POS	0
Lovelace	st2	5-7-2009T	U/U	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	39875.00	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Lovelace	st2	3-11-2009T	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Lovelace	st2	3-6-2009T	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	5-7-2009T	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	39875.00	U/U	DBP	-140.60	.	-5.57	.	279.50	.	3.35	.	17	0.887	13.22	21	NEG	1
Lovelace	st2	39877.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39883.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Lovelace	st2	39940.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	39875.00	U/U	DDT	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	3-11-2009T	U/U	DDT	-2.4E+08	148.60	-3.05	-0.27	1.4E+13	11.45	0.23	0.14	20	0.633	27.38	24	POS	1
Lovelace	st2	3-6-2009T	U/U	DDT	3.50	287.00	-3.07	-0.65	61.34	9.72	0.29	0.25	20	0.899	31.26	24	POS	0
Lovelace	st2	5-7-2009T	U/U	DDT	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	39875.00	U/U	DES	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st2	3-11-2009T	U/U	DES	18.92	105.70	.	.	9.49	6.72	.	.	20	0.785	23.26	24	POS	1
Lovelace	st2	3-6-2009T	U/U	DES	24.24	584.80	-4.83	-0.22	29.96	974.70	0.63	0.18	20	0.896	27.12	24	POS	0
Lovelace	st2	39875.00	U/U	E2	-0.51	75.05	-9.43	-2.20	3.88	5.85	0.09	0.77	20	0.886	12.72	24	POS	1
Lovelace	st2	39877.00	U/U	E2	7.15	279.60	-8.45	-0.93	6.12	10.36	0.07	0.11	20	0.982	14.92	24	POS	0
Lovelace	st2	39883.00	U/U	E2	-0.33	104.50	.	.	11.27	7.97	.	.	20	0.784	27.61	24	POS	1
Lovelace	st2	39940.00	U/U	E2	-30.28	7015.00	-7.47	-1.46	218.10	239.50	0.72	0.24	20	0.971	559.3	24	POS	0
Lovelace	st2	39875.00	U/U	EE2	.	383.50	.	0.59	.	127.90	.	0.64	20	0.308	203.4	24	POS	1

Table C-1. CERi Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Lovelace	st2	3-11-2009T	U/U	EE2	15.48	50.00	-9.20	-2.93	3.57	0.00	13.27	32.55	20	0.608	12.37	24	POS	1	
Lovelace	st2	3-6-2009T	U/U	EE2	10.30	71.48	-8.23	-0.72	5.81	12.80	0.39	0.51	20	0.687	17.32	24	POS	0	
Lovelace	st2	39875.00	U/U	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1	
Lovelace	st2	3-11-2009T	U/U	Equol	16.23	92.72	.	.	15.21	11.05	.	.	20	0.514	37.78	24	POS	1	
Lovelace	st2	3-6-2009T	U/U	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st2	5-7-2009T	U/U	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st2	39875.00	U/U	Gen	-8.54	179.70	-4.86	-0.29	34.32	23.86	0.28	0.13	20	0.913	18.48	24	POS	1	
Lovelace	st2	3-11-2009T	U/U	Gen	44.06	155.80	.	.	18.18	13.77	.	.	20	0.602	46.14	24	POS	1	
Lovelace	st2	3-6-2009T	U/U	Gen	-26.88	248.10	-5.05	-0.79	9.88	6.12	0.09	0.12	20	0.980	17.86	24	POS	0	
Lovelace	st2	5-7-2009T	U/U	Gen	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st2	39875.00	U/U	Hexestrol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1	
Lovelace	st2	3-11-2009T	U/U	Hexestrol	23.59	76.37	.	.	11.61	16.30	.	.	20	0.311	40.07	24	POS	1	
Lovelace	st2	3-6-2009T	U/U	Hexestrol	24.17	258.60	-6.98	-0.44	12.83	136.40	0.55	0.28	20	0.805	31.75	24	POS	0	
Lovelace	st2	5-7-2009T	U/U	Hexestrol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st2	39875.00	U/U	NE	-4.84	107.10	-6.71	-0.65	8.50	8.36	0.09	0.16	20	0.934	10.58	24	POS	1	
Lovelace	st2	39877.00	U/U	NE	0.14	237.70	-5.52	-0.66	34.51	24.15	0.23	0.27	20	0.844	36.10	24	POS	0	
Lovelace	st2	39883.00	U/U	NE	-2.E+07	254.70	-5.72	-0.08	5.E+12	750.70	0.24	0.69	20	0.750	27.15	24	POS	1	
Lovelace	st2	39940.00	U/U	NE	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Lovelace	st2	39875.00	U/U	NPhenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1	
Lovelace	st2	3-11-2009T	U/U	NPhenol	38.19	136.30	-4.86	-1.54	13.25	9.16	0.40	1.06	20	0.703	31.21	24	POS	1	
Lovelace	st2	3-6-2009T	U/U	NPhenol	31.99	219.80	-4.40	-1.23	11.58	7.26	0.25	0.44	20	0.927	24.39	24	POS	0	
Lovelace	st3	6-12-2009T	U/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Lovelace	st3	6-12-2009T	U/U	BaA	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Lovelace	st3	39976.00	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1	
Lovelace	st3	6-12-2009T	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Lovelace	st3	6-12-2009T	U/U	DHT	.	.	.	.	.	.	.	.	.	.	.	24	POS	1	
Lovelace	st3	39976.00	U/U	E2	33.73	304.20	-8.09	-1.10	8.63	13.52	0.18	0.19	20	0.963	22.38	24	POS	1	
Lovelace	st3	39976.00	U/U	NE	.	.	.	.	.	.	.	.	.	.	.	24	POS	1	
Lovelace	st3	6-12-2009T	U/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1	
Lovelace	st3	6-12-2009T	U/U	Tamox	.	282.90	.	-0.58	.	10.56	.	0.09	20	0.977	15.18	24	POS	1	
Missouri	st1	5007stdsonly_E2		E2	1.33	100.20	-9.14	-1.17	1.39	2.10	0.02	0.09	20	0.993	3.68	24	POS	0	

^a Acceptable (E2/NE). Indicates that the positive controls (reference estrogen (E2) and weak binder, norethynodrel (NE) were classified as 'acceptable' or 'unacceptable' for that particular run based upon judgement considering all estimated PRISM fit parameters simultaneously (top, bottom, slope, residual variability, LogIC₅₀, Hill slope, R²) (see Appendix F, pages 20-21), and the Integrated Summary Report, Section III.A.2). (A/A)= both E2 and NE control data were acceptable for that particular run; (A/U)= acceptable E2 and unacceptable NE control data for that particular run; and (U/U)= unacceptable E2 and NE control data for that particular run. Only data for test chemicals that were produced during a run with acceptable data for the controls (E2 and NE, e.g. A/A) were used in the independent statistical analysis conducted by Battelle (Appendix F).

Table C-1. CERI Assay. PRISM fit parameters for competitive binding data for all chemicals tested.

Laboratory ^f	SubTask	Run ID	Run Acceptable (U.S.EPA Review) (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
^b PRISM fit parameters for competitive binding data for each run. For description of data analysis refer to Section III.A.2, Data handling and statistical analysis,in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα).																		
^c The selection of test chemicals and derivation of expected binding affinities are described in Section II.E, Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα). In brief, the selection of chemicals was based upon strong historical documentation in published literature, input from scientists on the Study Management Team, the Validation Management Group-Non Animal Workgroup, and the Chemical Advisory Board.																		
^d “0” Indicates that data were submitted as ‘acceptable’ by the laboratory conducting the run; “1” indicates that data were submitted as ‘unacceptable’ by the laboratory based on an identified technical error while conducting the run (Appendix H, Task 2).																		
^e Following a technical review of the standardized data analysis, some runs were re-analyzed using the 10% rule. Updated PRISM fit estimates for these runs are shown in Appendix C, Addendum. (Refer to Appendix H, Task 3 and the Integrated Summary Report, Section III.A.2) for additional information).																		
^f Several of the participating laboratories are referenced by alternate names in the Battelle Data Analysis Reports. The laboratory name listed in parenthesis is consistent with that used in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα). Freyberger (Bayer), JapanCERI (CERI), Missouri (U. Missouri), Dietrich (U. Konstanz), Lovelace (Lovelace Respiratory Research Laboratory), CeeTox (no alternate name used).																		
^g Abbreviations: Atrazine (Atr), Benz(a)anthracene (BaA), Bisphenol A (BPA), Butyl paraben [n-butyl-4-hydroxybenzoate] (ButylPar), Corticosterone (Cort), Di-n-butyl phthalate (DBP, uncoded negative control, non-binder), Di-n-butyl phthalate-TC (DBP-Test Chemical, coded test chemical), o,p'-DDT (DDT; 1,1,1-trichloro-2-[o-chlorophenyl]ethane), Diethylstilbestrol (DES), Dexamethasone (Dex), 5α-dihydrotestosterone (DHT), 17β-Estradiol (E2, Reference estrogen, uncoded Control), 17β-Estradiol-TC (E2-Test Chemicals, coded test chemical),17a-ethynylestradiol (EE2), Enterolactone (ELactone), Equol (Equol), Genistein (Gen), Meso-Hexestrol (Hexestrol), 2,2-bis(p-hydroxyphenyl)-1,1,1-trichloroethane (HPTE), Kepone (Kepone), Norethynodrel (NE, uncoded Control, weak binder), Norethynodrel-TC (NE-Test Chemical, coded test chemical), 19-Norethindrone (Nethdrone), Nonylphenol [mixture] (NPhenol), Octyltriethoxysilane (OTES), Progesterone (P4), Tamoxifen (Tamox), Zearalenone (Zear)																		

Table C-2. FW Assay. PRISM fit parameters for competitive binding data for all chemicals testing.

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st1	20081123	A	NE	9.56	87.25	-6.18	-1.59	2.76	2.52	0.05	0.28	20	0.970	6.41	24	POS	0
Ceetox	st1	20081124	A	NE	0.52	87.70	-6.34	-0.93	4.85	4.00	0.06	0.18	20	0.960	7.26	24	POS	0
Ceetox	st1	20081218	A	NE	4.30	93.44	-6.21	-1.18	3.17	2.80	0.04	0.18	20	0.976	6.06	24	POS	0
Ceetox	st1	20081123	A	E2	2.03	93.84	-8.74	-1.55	2.34	2.89	0.04	0.25	23	0.973	7.22	27	POS	0
Ceetox	st1	20081218	A	E2	0.29	103.80	-8.78	-0.96	2.79	4.95	0.05	0.15	22	0.969	7.77	26	POS	0
Dietrich	st1	Assay03	A	NE	3.19	100.30	-5.57	-1.13	8.18	3.14	0.06	0.26	20	0.956	8.27	24	POS	0
Dietrich	st1	Assay03	A	E2	1.47	92.85	-8.85	-1.28	3.32	4.60	0.07	0.28	23	0.944	10.03	27	POS	0
JapanCERI	st1	20090113_01	A	NE	1.17	90.23	-6.59	-0.93	1.48	1.69	0.02	0.07	20	0.994	2.72	24	POS	0
JapanCERI	st1	20090121_02	A	NE	2.28	99.31	-6.58	-0.92	0.86	1.09	0.01	0.04	20	0.998	1.65	24	POS	0
JapanCERI	st1	20090128_03	A	NE	0.94	99.90	-6.51	-0.85	1.27	1.44	0.02	0.04	20	0.997	2.12	24	POS	0
JapanCERI	st1	20090113_01	A	E2	0.75	94.01	-8.83	-1.15	0.80	1.14	0.02	0.06	23	0.997	2.34	27	POS	0
JapanCERI	st1	20090121_02	A	E2	0.01	100.80	-8.76	-1.11	0.95	1.36	0.02	0.06	23	0.996	2.77	27	POS	0
JapanCERI	st1	20090128_03	A	E2	0.76	97.34	-8.74	-1.16	0.70	0.95	0.01	0.05	23	0.998	2.03	27	POS	0
Lovelace	st1	16-Dec-08	A	NE	8.31	122.60	-5.91	-1.01	5.44	4.32	0.06	0.18	20	0.969	8.59	24	POS	1
Lovelace	st1	13-Dec-08	A	E2	5.68	111.60	-8.86	-1.04	3.20	5.41	0.06	0.19	23	0.957	9.49	27	POS	0
Lovelace	st1	19-Dec-08	A	E2	-2.12	103.20	-8.53	-0.72	6.92	9.40	0.12	0.24	23	0.891	14.93	27	POS	1
Missouri	st1	3005	A	NE	6.12	106.30	-6.37	-1.02	2.47	2.82	0.04	0.11	20	0.986	4.92	24	POS	1
Missouri	st1	3006	A	NE	3.66	90.53	-6.64	-1.08	1.62	2.08	0.03	0.10	20	0.990	3.60	24	POS	0
Missouri	st1	3008	A	NE	3.22	106.50	-6.58	-0.83	1.54	2.07	0.02	0.05	20	0.995	2.73	24	POS	1
Missouri	st1	7003	A	NE	0.82	102.20	-6.36	-0.95	1.54	1.57	0.02	0.06	20	0.996	2.71	24	POS	0
Missouri	st1	7004	A	NE	0.74	109.30	-6.40	-0.94	2.14	2.41	0.03	0.08	20	0.992	3.95	24	POS	0
Missouri	st1	7005	A	NE	0.10	101.20	-6.47	-0.89	1.40	1.55	0.02	0.05	20	0.996	2.42	24	POS	0
Missouri	st1	7006	A	NE	1.23	110.60	-6.47	-0.79	3.36	4.08	0.04	0.10	20	0.984	5.36	24	POS	0
Missouri	st1	7007	A	NE	0.92	107.80	-6.40	-0.84	1.45	1.58	0.02	0.04	20	0.997	2.34	24	POS	0
Missouri	st1	7003	A	E2	0.56	111.30	-8.92	-1.09	1.03	1.03	0.02	0.08	23	0.997	3.05	27	POS	0
Missouri	st1	7004	A	E2	-0.09	112.90	-8.87	-0.92	1.84	1.80	0.05	0.10	23	0.991	5.14	27	POS	0
Missouri	st1	7005	A	E2	-0.39	105.70	-8.92	-0.88	2.30	2.23	0.06	0.12	23	0.985	6.29	27	POS	0
Missouri	st1	7006	A	E2	-0.57	107.40	-8.86	-0.99	1.83	2.98	0.03	0.10	23	0.987	5.28	27	POS	0
Missouri	st1	7007	A	E2	0.12	109.20	-8.92	-0.96	1.16	2.03	0.02	0.06	23	0.995	3.37	27	POS	0
Lovelace	st12	6-Oct-09	A	NE	6.67	123.20	-6.02	-0.95	2.22	1.96	0.03	0.07	20	0.995	3.57	24	POS	0
Lovelace	st12	09Oct09EtOH-Buffer	A	NE	4.86	102.10	-6.45	-0.88	1.73	2.01	0.02	0.07	20	0.994	3.04	24	POS	0
Lovelace	st12	09Oct09EtOH	A	NE	-1.42	113.20	-6.09	-0.83	2.99	2.32	0.03	0.07	20	0.993	3.83	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st12	14Oct09EtOH	A	NE	-5.16	110.00	-6.07	-0.77	6.64	4.46	0.05	0.13	19	0.974	7.06	23	POS	0
Lovelace	st12	25Sep09EtOH	A	NE	4.23	100.60	-6.30	-1.19	4.65	4.74	0.07	0.26	20	0.950	9.72	24	POS	0
Lovelace	st12	6-Oct-09	A	E2	2.12	127.70	-8.52	-0.98	2.53	3.69	0.04	0.11	23	0.983	7.02	27	POS	0
Lovelace	st12	05Oct09EtOH - Buffer	A	E2	-1.64	95.54	-9.11	-0.64	2.80	5.82	0.06	0.10	23	0.969	6.34	27	POS	0
Lovelace	st12	19Aug08EtOH - Buffer	A	E2	-0.47	92.31	-8.98	-0.96	1.30	2.13	0.03	0.08	23	0.991	3.68	27	POS	0
Ceetox	st2	20090223	A	NE	10.39	94.26	-6.00	-1.54	2.02	1.61	0.03	0.18	20	0.988	4.24	24	POS	0
Ceetox	st2	20090307	A	NE	4.01	104.30	-6.17	-0.93	2.68	2.32	0.03	0.09	20	0.990	4.17	24	POS	0
Ceetox	st2	20090326	A	NE	6.24	107.50	-6.31	-0.78	4.47	8.44	0.07	0.18	20	0.948	8.50	24	POS	0
Ceetox	st2	20090124BAD	A	NE	6.11	83.44	-6.28	-1.32	2.60	2.35	0.04	0.20	20	0.976	5.44	24	POS	1
Ceetox	st2	20090202BAD	A	NE	-1.93	86.58	-6.23	-1.19	4.50	3.64	0.07	0.26	19	0.959	8.13	23	POS	1
Ceetox	st2	20090223	A	E2	2.00	103.20	-8.45	-1.12	2.83	3.39	0.05	0.18	23	0.971	7.85	27	POS	0
Ceetox	st2	20090307	A	E2	3.23	100.60	-8.74	-1.41	2.70	3.52	0.05	0.24	23	0.967	8.25	27	POS	0
Ceetox	st2	20090326	A	E2	1.84	108.40	-8.59	-1.07	1.69	2.29	0.03	0.10	23	0.990	4.77	27	POS	0
Ceetox	st2	20090124BAD	A	E2	0.64	92.76	-9.36	-0.99	1.63	4.04	0.04	0.11	22	0.980	4.98	26	POS	1
Ceetox	st2	20090202BAD	A	E2	-0.06	90.99	-9.17	-0.96	1.63	2.99	0.04	0.10	23	0.984	4.77	27	POS	1
Ceetox	st2	20090213TEST4	A	E2	-2.69	107.20	-8.71	-1.16	1.86	2.26	0.05	0.15	23	0.987	6.15	27	POS	0
Ceetox	st2	20090213TEST4_2	A	E2	0.81	106.60	-8.62	-1.05	1.63	1.97	0.05	0.11	23	0.990	5.24	27	POS	0
Dietrich	st2	Assay04	A	NE	8.80	101.30	-6.44	-1.19	3.27	4.00	0.05	0.21	20	0.966	7.55	24	POS	0
Dietrich	st2	Assay05	A	NE	2.75	101.80	-6.32	-1.11	1.66	1.71	0.02	0.08	20	0.994	3.33	24	POS	0
Dietrich	st2	Assay06	A	NE	-1.55	86.61	-6.15	-1.25	3.99	2.99	0.05	0.23	20	0.967	7.14	24	POS	0
Dietrich	st2	Assay15	A	NE	6.74	119.10	-6.04	-0.97	2.53	2.23	0.03	0.08	20	0.992	4.13	24	POS	0
Dietrich	st2	Assay16	A	NE	5.60	107.90	-6.12	-0.89	3.07	2.61	0.04	0.09	20	0.988	4.49	24	POS	0
Dietrich	st2	Assay04	A	E2	0.31	90.39	-9.04	-0.96	2.67	4.49	0.06	0.16	23	0.961	7.63	27	POS	0
Dietrich	st2	Assay05	A	E2	-0.47	105.40	-8.69	-0.79	1.51	2.37	0.03	0.06	23	0.992	3.77	27	POS	0
Dietrich	st2	Assay06	A	E2	0.06	97.81	-8.89	-0.93	1.71	2.77	0.04	0.09	23	0.987	4.75	27	POS	0
Dietrich	st2	Assay16	A	E2	0.66	108.70	-8.75	-0.83	1.27	2.11	0.02	0.05	23	0.994	3.34	27	POS	0
Freyberger	st2	A	A	NE	2.75	101.10	-6.35	-0.95	1.29	1.32	0.02	0.05	20	0.997	2.25	24	POS	0
Freyberger	st2	B	A	NE	3.57	97.67	-6.40	-0.95	1.39	1.46	0.02	0.06	20	0.996	2.46	24	POS	0
Freyberger	st2	D	A	NE	1.54	108.20	-6.15	-0.89	1.47	1.24	0.02	0.04	20	0.998	2.14	24	POS	0
Freyberger	st2	E	DMSO (A)	NE	1.36	99.88	-6.37	-0.89	1.18	1.18	0.01	0.04	20	0.998	1.93	24	POS	0
Freyberger	st2	F	DMSO (A)	NE	3.15	100.40	-6.46	-1.00	1.70	1.96	0.02	0.08	20	0.993	3.34	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st2	G	DMSO (A)	NE	4.95	86.43	-6.45	-1.16	1.21	1.27	0.02	0.08	20	0.995	2.53	24	POS	0
Freyberger	st2	E	DMSO (A)/DMSO(A)	Gen	0.06	99.12	-6.13	-1.37	1.91	1.76	0.04	0.25	20	0.989	5.22	24	POS	0
Freyberger	st2	F	DMSO (A)/DMSO (A)	Gen	1.00	97.77	-6.11	-1.34	1.06	0.96	0.02	0.14	20	0.997	2.86	24	POS	0
Freyberger	st2	G	DMSO(A)/DMSO(A)	Gen	0.32	92.90	-6.21	-1.03	1.17	1.04	0.03	0.08	20	0.996	2.94	24	POS	0
Freyberger	st2	A	A	E2	0.30	97.65	-8.89	-1.14	0.74	1.13	0.01	0.05	23	0.997	2.21	27	POS	0
Freyberger	st2	B	A	E2	0.56	96.22	-8.89	-1.13	0.66	0.99	0.01	0.05	23	0.998	1.94	27	POS	0
Freyberger	st2	D	A	E2	0.14	106.40	-9.01	-0.93	0.66	1.23	0.01	0.03	23	0.998	1.92	27	POS	0
Freyberger	st2	E	DMSO (A)	E2	-0.51	114.40	-8.99	-0.86	0.72	1.42	0.01	0.03	23	0.998	2.04	27	POS	0
Freyberger	st2	F	DMSO (A)	E2	0.20	106.50	-9.08	-0.91	0.73	1.43	0.01	0.04	23	0.998	2.13	27	POS	0
Freyberger	st2	G	DMSO (A)	E2	-0.20	93.13	-9.11	-0.95	1.00	1.80	0.02	0.06	23	0.994	2.90	27	POS	0
Freyberger	st2	E	DMSO (A)/DMSO(A)	DDT	12.88	101.90	-5.91	-0.89	2.43	1.40	0.05	0.10	17	0.991	3.82	21	POS	0
Freyberger	st2	F	DMSO (A)/DMSO(A)	DDT	12.70	93.34	-5.82	-0.96	2.75	1.37	0.05	0.14	17	0.988	3.99	21	POS	0
Freyberger	st2	G	DMSO (A)/DMSO(A)	DDT	10.34	93.33	-5.96	-0.64	3.24	1.51	0.05	0.08	17	0.990	3.50	21	POS	0
Freyberger	st2	E	DMSO (A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	F	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	G	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	E	DMSO(A)/DMSO(A)	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st2	F	DMSO(A)/DMSO(A)	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st2	G	DMSO(A)/DMSO(A)	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st2	20090422_01	A	NE	1.32	103.30	-6.61	-0.92	0.93	1.25	0.01	0.04	20	0.998	1.84	24	POS	0
JapanCERI	st2	20090427_02	A	NE	3.59	104.90	-6.63	-0.96	1.14	1.62	0.02	0.05	20	0.997	2.40	24	POS	0
JapanCERI	st2	20090430_03	A	NE	0.93	98.71	-6.61	-0.93	0.81	1.03	0.01	0.03	20	0.998	1.57	24	POS	0
JapanCERI	st2	20090422_01	A	E2	-0.08	101.60	-8.72	-1.00	0.71	1.03	0.01	0.04	23	0.998	1.99	27	POS	0
JapanCERI	st2	20090427_02	A	E2	0.10	106.10	-8.77	-1.07	0.68	1.02	0.01	0.04	23	0.998	1.98	27	POS	0
JapanCERI	st2	20090430_03	A	E2	-1.15	100.30	-8.83	-0.88	1.00	1.60	0.02	0.05	23	0.996	2.69	27	POS	0
Lovelace	st2	01May09EtOH	A	NE	8.91	100.40	-6.20	-1.05	2.61	2.45	0.04	0.12	20	0.985	4.73	24	POS	0
Lovelace	st2	17Feb09DMSO	DMSO(A)	NE	6.29	104.50	-6.65	-0.98	2.82	4.18	0.05	0.14	20	0.976	6.25	24	POS	0
Lovelace	st2	21April09EtOH	A	NE	-1.27	123.80	-6.24	-0.73	4.16	4.21	0.04	0.09	20	0.987	5.40	24	POS	0
Lovelace	st2	24Feb09EtOH	A	NE	-2.36	105.50	-6.38	-0.77	3.86	3.80	0.04	0.10	20	0.984	5.29	24	POS	0
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	Hexestrol	1.24	113.30	-6.67	-0.90	1.55	1.10	0.03	0.06	20	0.996	3.25	24	POS	0
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	Gen	3.74	104.40	-6.76	-1.00	3.03	2.21	0.07	0.17	20	0.981	6.68	24	POS	0
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	EE2	2.28	105.60	-7.62	-1.05	0.98	1.03	0.03	0.06	20	0.997	2.73	24	POS	0
Lovelace	st2	01May09EtOH	A	E2	2.01	102.80	-9.44	-0.85	1.91	4.95	0.04	0.11	23	0.976	5.69	27	POS	1
Lovelace	st2	16April09EtOH	A	E2	1.16	99.00	-8.48	-0.95	5.65	7.04	0.11	0.30	23	0.895	14.60	27	POS	0
Lovelace	st2	17Feb09DMSO	DMSO(A)	E2	0.78	103.90	-8.93	-1.01	0.77	1.30	0.02	0.04	23	0.997	2.24	27	POS	0
Lovelace	st2	24Feb09EtOH	A	E2	-0.46	101.50	-8.80	-1.05	1.18	1.76	0.02	0.07	23	0.994	3.40	27	POS	0
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	Cort	24.55	104.70	-4.19	-1.51	6.26	2.61	0.12	0.42	20	0.920	9.96	24	NEG	0
Missouri	st2	9003	A	NE	0.11	105.50	-6.26	-0.95	1.26	1.19	0.01	0.04	20	0.998	2.11	24	POS	0
Missouri	st2	9004	A	NE	1.95	102.10	-6.25	-0.97	1.97	1.82	0.02	0.07	20	0.994	3.32	24	POS	0
Missouri	st2	9005	A	NE	-0.91	99.05	-6.33	-1.00	2.14	2.04	0.03	0.09	20	0.992	3.78	24	POS	0
Missouri	st2	9007	A	NE	-2.79	99.57	-6.45	-0.82	2.86	2.87	0.03	0.09	20	0.989	4.27	24	POS	0
Missouri	st2	9003	A	E2	-1.34	106.30	-9.11	-0.89	1.88	3.73	0.04	0.09	23	0.984	5.41	27	POS	0
Missouri	st2	9004	A	E2	-0.81	107.50	-9.13	-0.87	1.48	3.06	0.03	0.07	23	0.990	4.25	27	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st2	9005	A	E2	-2.12	105.60	-9.14	-0.91	2.06	4.10	0.04	0.10	23	0.981	5.99	27	POS	0
Missouri	st2	9007	A	E2	-0.62	102.90	-9.21	-0.98	1.61	3.22	0.03	0.09	23	0.986	4.87	27	POS	0
Ceetox	st3	20090418DMSO	DMSO(A)/DMSO(A)	SDS	0.16	113.80	.	.	4.28	2.47	.	.	20	0.964	10.49	24	NEG	0
Ceetox	st3	20090418	A	NE	1.54	111.80	-6.12	-0.86	4.35	3.61	0.04	0.12	20	0.981	6.04	24	POS	0
Ceetox	st3	20090505	A	NE	0.60	95.98	-6.31	-0.96	2.64	2.40	0.03	0.10	20	0.988	4.36	24	POS	0
Ceetox	st3	20090418DMS	DMSO(A)	NE	2.71	104.90	-6.19	-1.01	3.50	3.16	0.04	0.13	20	0.981	6.01	24	POS	0
Ceetox	st3	20090505DMSO	DMSO(A)	NE	1.62	90.81	-6.31	-0.91	3.84	3.24	0.05	0.14	20	0.975	5.74	24	POS	0
Ceetox	st3	20090514DMSO	DMSO(A)	NE	10.48	95.51	-6.05	-1.26	2.96	2.42	0.04	0.18	20	0.978	5.63	24	POS	0
Ceetox	st3	20090418	A	E2	2.25	103.10	-8.74	-1.25	2.60	3.57	0.05	0.19	23	0.972	7.76	27	POS	0
Ceetox	st3	20090426	A	E2	1.67	113.20	-8.78	-0.95	3.23	5.31	0.06	0.16	23	0.963	9.13	27	POS	0
Ceetox	st3	20090505	A	E2	0.51	88.48	-8.82	-1.21	1.57	2.12	0.03	0.13	23	0.987	4.63	27	POS	0
Ceetox	st3	20090418 DMS	DMSO(A)	E2	-0.71	108.30	-8.81	-0.84	2.37	4.02	0.04	0.10	23	0.980	6.29	27	POS	0
Ceetox	st3	20090505 DMSO	DMSO(A)	E2	1.75	91.64	-8.80	-1.06	2.51	3.56	0.05	0.17	23	0.968	7.14	27	POS	0
Ceetox	st3	20090514 DMSO	DMSO(A)	E2	2.71	86.70	-8.95	-1.35	1.94	2.75	0.04	0.20	23	0.976	5.98	27	POS	0
Ceetox	st3	20090505	DMSO(A)/DMSO(A)	DHT	11.14	85.25	-6.02	-1.89	2.15	1.81	0.04	1.31	20	0.977	5.72	24	POS	0
Ceetox	st3	20090505	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090418 DMSO	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090514 DMSO	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	Buffer Control	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	blank2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	blank1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay09	A	NE	1.25	92.51	-6.37	-0.85	3.39	3.01	0.04	0.11	20	0.982	4.90	24	POS	0
Dietrich	st3	Assay10_Part 1	A	NE	4.14	69.75	-6.63	-1.14	3.04	3.00	0.08	0.23	20	0.957	6.06	24	POS	0
Dietrich	st3	Assay11	A	NE	5.47	87.40	-6.38	-1.14	4.25	4.22	0.07	0.26	20	0.946	8.50	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Dietrich	st3	Assay12_Part 1	A	NE	1.78	87.86	-6.33	-0.92	3.47	2.87	0.05	0.13	20	0.979	5.18	24	POS	0
Dietrich	st3	Assay13	A	NE	0.99	98.20	-6.29	-0.89	2.32	2.05	0.03	0.08	20	0.992	3.50	24	POS	0
Dietrich	st3	Assay14_Part 1	A	NE	4.51	84.02	-6.28	-1.06	3.37	2.79	0.05	0.17	20	0.972	5.71	24	POS	0
Dietrich	st3	Assay15	A	NE	6.74	119.10	-6.04	-0.97	2.53	2.23	0.03	0.08	20	0.992	4.13	24	POS	0
Dietrich	st3	Assay16	A	NE	5.60	107.90	-6.12	-0.89	3.07	2.61	0.04	0.09	20	0.988	4.49	24	POS	0
Dietrich	st3	Assay08	A	E2	0.62	101.00	-8.70	-1.11	1.61	2.21	0.03	0.10	23	0.989	4.62	27	POS	0
Dietrich	st3	Assay09	A	E2	0.43	83.34	-8.85	-1.08	1.15	1.58	0.03	0.09	23	0.992	3.28	27	POS	0
Dietrich	st3	Assay10_Part 1	A	E2	-0.42	105.90	-8.78	-0.83	1.54	2.55	0.03	0.07	23	0.991	4.04	27	POS	0
Dietrich	st3	Assay11	A	E2	-0.59	104.70	-8.80	-0.79	1.71	2.88	0.03	0.07	23	0.990	4.36	27	POS	0
Dietrich	st3	Assay12_Part 1	A	E2	-3.22	91.98	-8.92	-0.60	3.63	6.83	0.07	0.12	21	0.964	6.68	25	POS	0
Dietrich	st3	Assay13	A	E2	-0.35	93.28	-8.77	-0.88	1.92	3.23	0.04	0.11	21	0.984	5.00	25	POS	0
Dietrich	st3	Assay14_Part 1	A	E2	0.14	80.31	-8.67	-1.15	1.62	1.91	0.04	0.13	23	0.985	4.52	27	POS	0
Dietrich	st3	Assay15	A	E2	0.00	121.20	-8.66	-0.74	1.52	2.66	0.03	0.05	23	0.994	3.72	27	POS	0
Dietrich	st3	Assay16	A	E2	0.66	108.70	-8.75	-0.83	1.27	2.11	0.02	0.05	23	0.994	3.34	27	POS	0
Freyberger	st3	CODE A	A	NE	4.46	105.40	-6.12	-1.03	1.26	1.08	0.02	0.05	20	0.998	2.12	24	POS	0
Freyberger	st3	CODE A1	A	NE	-1.73	105.90	-6.27	-0.71	4.60	3.89	0.04	0.10	20	0.983	5.12	24	POS	0
Freyberger	st3	CODE AB	A	NE	2.80	101.20	-6.35	-0.87	3.08	3.06	0.04	0.10	20	0.985	4.88	24	POS	0
Freyberger	st3	CODE B	A	NE	3.32	100.60	-6.29	-0.94	0.90	0.85	0.01	0.03	20	0.999	1.49	24	POS	0
Freyberger	st3	CODE B2	A	NE	0.90	99.25	-6.32	-0.83	4.24	3.81	0.05	0.12	20	0.977	5.95	24	POS	0
Freyberger	st3	CODE A	A	E2	0.90	105.80	-9.00	-0.96	0.64	1.16	0.01	0.03	23	0.998	1.87	27	POS	0
Freyberger	st3	CODE A1	A	E2	0.95	106.70	-9.04	-0.94	0.59	1.10	0.01	0.03	23	0.998	1.71	27	POS	0
Freyberger	st3	CODE A2	A	E2	0.33	103.40	-8.87	-0.98	2.51	4.06	0.05	0.14	23	0.974	7.17	27	POS	0
Freyberger	st3	CODE AB	A	E2	0.38	100.80	-9.00	-1.01	0.72	1.24	0.01	0.04	23	0.998	2.12	27	POS	0
Freyberger	st3	CODE B	A	E2	0.57	97.80	-9.14	-0.97	0.46	0.87	0.01	0.03	23	0.999	1.37	27	POS	0
Freyberger	st3	CODE B1	A	E2	0.15	107.10	-8.97	-0.92	0.89	1.61	0.02	0.04	23	0.997	2.53	27	POS	0
Freyberger	st3	CODE B2	A	E2	0.30	98.52	-9.02	-1.01	0.52	0.90	0.01	0.03	23	0.999	1.53	27	POS	0
JapanCERI	st3	091021_01	A	NE	-0.64	99.69	-6.75	-0.85	1.27	1.85	0.02	0.05	20	0.996	2.42	24	POS	0
JapanCERI	st3	091026_02	A	NE	0.02	104.80	-6.83	-0.78	1.52	2.57	0.02	0.06	20	0.995	2.79	24	POS	0
JapanCERI	st3	091105_03	A	NE	-0.51	103.30	-6.68	-0.85	2.98	4.19	0.04	0.11	20	0.981	5.58	24	POS	0
JapanCERI	st3	091109_04	A	NE	-0.79	102.90	-6.73	-0.86	1.00	1.47	0.01	0.04	20	0.998	1.93	24	POS	0
JapanCERI	st3	091110_05	DMSO(A)	NE	0.09	100.90	-6.76	-0.86	1.97	2.94	0.03	0.08	20	0.990	3.84	24	POS	0
JapanCERI	st3	091111_06	A	NE	-1.29	103.40	-6.65	-0.87	1.31	1.77	0.02	0.05	20	0.996	2.46	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st3	091112_07	DMSO(A)	NE	-1.66	102.40	-6.78	-0.86	1.59	2.43	0.02	0.06	20	0.994	3.12	24	POS	0
JapanCERI	st3	091116_08	A	NE	0.83	104.10	-6.71	-0.82	1.27	1.88	0.02	0.05	20	0.996	2.34	24	POS	0
JapanCERI	st3	091117_09	DMSO(A)	NE	1.97	100.30	-6.83	-0.92	1.61	2.65	0.03	0.08	20	0.992	3.53	24	POS	0
JapanCERI	st3	091118_10	DMSO(A)	NE	1.66	102.60	-6.78	-0.93	1.07	1.70	0.02	0.05	20	0.997	2.33	24	POS	0
JapanCERI	st3	091119_11	A	NE	0.33	106.70	-6.69	-0.93	1.55	2.30	0.02	0.07	20	0.994	3.25	24	POS	0
JapanCERI	st3	91110	DMSO(A)/DM SO(A)	E2-TC	23.21	105.40	.	.	11.78	10.56	.	.	20	0.617	32.94	24	POS	0
JapanCERI	st3	91112	DMSO(A)/DM SO(A)	E2-TC	-2.56	106.90	-5.85	-0.97	2.20	1.64	0.04	0.11	20	0.991	4.87	24	POS	0
JapanCERI	st3	91117	DMSO(A)/DM SO(A)	E2-TC	6.62	112.40	-5.74	-1.04	1.43	1.08	0.03	0.08	20	0.996	3.26	24	POS	0
JapanCERI	st3	91118	DMSO(A)/DM SO(A)	E2-TC	3.00	115.80	-5.69	-1.07	2.49	1.82	0.05	0.14	20	0.989	5.62	24	POS	0
JapanCERI	st3	091021_01	A	E2	0.38	97.93	-8.86	-1.26	0.92	1.31	0.02	0.07	23	0.996	2.77	27	POS	0
JapanCERI	st3	091105_03	A	E2	-0.62	101.10	-8.73	-1.16	0.50	0.68	0.01	0.03	23	0.999	1.45	27	POS	0
JapanCERI	st3	091109_04	A	E2	-0.34	100.20	-8.80	-1.08	0.93	1.36	0.02	0.06	23	0.996	2.68	27	POS	0
JapanCERI	st3	091110_05	DMSO(A)	E2	-0.11	103.90	-8.84	-1.08	1.73	2.66	0.03	0.10	23	0.988	5.07	27	POS	0
JapanCERI	st3	091111_06	A	E2	-0.28	97.87	-8.88	-1.12	1.39	2.08	0.03	0.09	23	0.991	4.09	27	POS	0
JapanCERI	st3	091112_07	DMSO(A)	E2	-1.33	103.10	-8.77	-0.96	0.87	1.32	0.02	0.04	23	0.997	2.41	27	POS	0
JapanCERI	st3	091116_08	A	E2	1.53	98.81	-8.74	-1.25	1.43	1.91	0.03	0.11	23	0.991	4.24	27	POS	0
JapanCERI	st3	091117_09	DMSO(A)	E2	0.76	102.50	-8.83	-1.14	0.68	1.01	0.01	0.05	23	0.998	2.01	27	POS	0
JapanCERI	st3	091118_10	DMSO(A)	E2	0.77	102.20	-8.77	-1.03	1.09	1.62	0.02	0.06	23	0.995	3.10	27	POS	0
JapanCERI	st3	091119_11	A	E2	-0.93	105.50	-8.80	-0.87	1.58	2.57	0.03	0.07	23	0.991	4.26	27	POS	0
JapanCERI	st3	91110	DMSO(A)/DM SO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91112	DMSO(A)/DM SO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91117	DMSO(A)/DM SO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91118	DMSO(A)/DM SO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91110	DMSO(A)/DM SO(A)	BaA_DMSO	50.00	126.00	-8.75	3.20	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st3	91112	DMSO(A)/DMSO(A)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91117	DMSO(A)/DMSO(A)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91118	DMSO(A)/DMSO(A)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91110	DMSO(A)/DMSO(A)	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91112	DMSO(A)/DMSO(A)	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91117	DMSO(A)/DMSO(A)	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91118	DMSO(A)/DMSO(A)	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	19Jun09EtOH	A	NE	-1.10	98.75	-6.35	-0.85	2.29	2.10	0.03	0.07	20	0.993	3.35	24	POS	1
Lovelace	st3	30Jun09EtOH	A	NE	-0.81	105.80	-6.40	-0.71	3.48	3.51	0.04	0.08	20	0.988	4.34	24	POS	0
Lovelace	st3	13Mar09EtOH	A	E2	1.20	106.30	-8.48	-1.08	6.46	8.05	0.12	0.38	23	0.874	17.82	27	POS	0
Lovelace	st3	19Jun09EtOH	A	E2	-0.35	102.60	-8.45	-0.95	3.44	4.27	0.06	0.17	23	0.962	8.88	27	POS	1
Lovelace	st3	30Jun09EtOH	A	E2	0.33	104.00	-8.69	-0.88	1.74	2.62	0.03	0.08	23	0.989	4.58	27	POS	0
Missouri	st3	8003	A	NE	-0.30	96.53	-5.92	-0.90	3.01	1.60	0.03	0.08	20	0.993	3.20	24	POS	0
Missouri	st3	8004	A	NE	1.95	106.30	-6.27	-0.97	3.05	2.99	0.04	0.11	20	0.985	5.31	24	POS	0
Missouri	st3	8005	A	NE	-0.34	92.07	-6.11	-0.86	3.39	2.11	0.03	0.09	20	0.989	3.87	24	POS	0
Missouri	st3	8101	A	NE	-1.62	107.80	-6.39	-0.76	2.58	2.65	0.03	0.07	20	0.993	3.56	24	POS	0
Missouri	st3	8102	A	NE	-0.19	95.74	-6.44	-0.82	2.33	2.27	0.03	0.07	20	0.992	3.43	24	POS	0
Missouri	st3	8107	A	NE	-4.25	107.60	-6.44	-0.59	5.63	5.58	0.05	0.09	20	0.981	5.19	24	POS	0
Missouri	st3	8201 DMSO	DMSO(A)	NE	0.08	93.66	-6.62	-0.84	0.98	1.16	0.01	0.04	20	0.998	1.66	24	POS	0
Missouri	st3	8203 DMSO	DMSO(A)	NE	2.69	94.20	-6.56	-1.04	2.01	2.44	0.03	0.11	20	0.988	4.19	24	POS	0
Missouri	st3	8003	A	E2	0.33	103.20	-9.03	-0.98	0.90	1.63	0.02	0.05	23	0.996	2.66	27	POS	0
Missouri	st3	8004	A	E2	1.23	114.50	-8.92	-0.93	1.88	3.42	0.04	0.09	23	0.987	5.41	27	POS	0
Missouri	st3	8005	A	E2	-0.45	96.83	-9.14	-0.85	0.60	1.17	0.01	0.03	23	0.998	1.67	27	POS	0
Missouri	st3	8101	A	E2	0.29	96.73	-8.99	-1.50	0.35	1.00	0.01	0.06	23	0.998	1.34	27	POS	0
Missouri	st3	8102	A	E2	0.74	91.49	-9.02	-1.35	0.24	0.73	0.01	0.04	23	0.999	0.89	27	POS	0
Missouri	st3	8107	A	E2	0.59	96.77	-9.00	-1.07	1.09	1.80	0.02	0.07	23	0.994	3.25	27	POS	0
Missouri	st3	8108	A	E2	-1.15	109.90	-8.90	-1.00	1.65	2.62	0.03	0.08	22	0.991	4.53	26	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st3	8201 DMSO	DMSO(A)	E2	0.13	86.65	-9.06	-1.02	0.67	1.10	0.02	0.05	23	0.997	1.96	27	POS	0
Missouri	st3	8203 DMSO	DMSO(A)	E2	0.17	94.21	-9.15	-1.03	1.85	3.36	0.04	0.12	23	0.980	5.58	27	POS	0
Missouri	st3	8201	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8203	DMSO(A)/DMSO(A)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8201	DMSO(A)/DMSO(A)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8203	DMSO(A)/DMSO(A)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911A	A	NE	5.83	99.74	-5.99	-1.19	3.28	2.44	0.04	0.16	20	0.981	5.64	24	POS	0
Ceetox	st4	20090914A	A	NE	8.42	96.23	-5.96	-1.31	3.52	2.56	0.04	0.22	20	0.974	6.35	24	POS	0
Ceetox	st4	20090917A	A	NE	10.50	92.65	-6.03	-1.34	2.83	2.23	0.04	0.20	20	0.978	5.46	24	POS	0
Ceetox	st4	20090911A	A	E2	0.68	96.71	-9.01	-1.14	1.55	2.52	0.03	0.11	23	0.987	4.70	27	POS	0
Ceetox	st4	20090914A	A	E2	2.32	94.99	-8.78	-1.36	2.07	2.73	0.04	0.19	23	0.979	6.28	27	POS	0
Ceetox	st4	20090917A	A	E2	2.49	99.41	-8.75	-1.26	2.26	3.05	0.04	0.18	23	0.977	6.75	27	POS	0
Missouri	st4	1101	A	NE	2.22	117.50	-6.32	-0.92	3.94	4.36	0.05	0.13	19	0.979	6.92	23	POS	0
Missouri	st4	1102	A	NE	3.00	106.90	-6.28	-0.86	3.48	3.41	0.04	0.11	20	0.983	5.41	24	POS	0
Missouri	st4	1103	A	NE	-5.15	96.97	-6.31	-0.71	4.03	2.97	0.04	0.08	20	0.988	4.14	24	POS	0
Missouri	st4	1104	A	NE	4.37	110.60	-6.21	-0.89	3.33	3.17	0.04	0.11	20	0.985	5.28	24	POS	0
Missouri	st4	1106	A	NE	2.72	103.30	-6.30	-1.07	1.99	2.01	0.03	0.09	20	0.992	3.84	24	POS	0
Missouri	st4	1107	A	NE	-1.85	114.60	-6.29	-0.76	1.65	1.61	0.02	0.04	20	0.998	2.21	24	POS	0
Missouri	st4	1108	A	NE	-5.25	96.26	-6.63	-0.91	1.31	1.57	0.02	0.05	20	0.997	2.42	24	POS	0
Missouri	st4	1109	A	NE	-10.36	99.39	-6.68	-0.78	4.01	4.74	0.05	0.11	20	0.978	6.21	24	POS	0
Missouri	st4	1110	A	NE	3.65	89.77	-6.35	-0.98	3.31	3.04	0.05	0.15	20	0.976	5.61	24	POS	0
Missouri	st4	1101	A	E2	2.14	94.15	-8.88	-1.01	1.72	2.67	0.04	0.11	23	0.985	4.93	27	POS	0
Missouri	st4	1102	A	E2	-0.35	86.20	-9.00	-1.03	1.74	2.71	0.04	0.12	23	0.982	5.03	27	POS	0
Missouri	st4	1103	A	E2	-0.48	90.45	-8.89	-0.94	1.53	2.34	0.03	0.09	23	0.988	4.21	27	POS	0
Missouri	st4	1104	A	E2	-1.05	110.40	-8.84	-0.89	1.68	2.87	0.03	0.08	23	0.990	4.64	27	POS	0
Missouri	st4	1106	A	E2	0.78	106.80	-8.92	-1.18	1.36	2.17	0.02	0.09	23	0.992	4.15	27	POS	0
Missouri	st4	1107	A	E2	-1.41	104.90	-9.03	-1.04	1.37	2.42	0.03	0.08	23	0.992	4.11	27	POS	0
Missouri	st4	1108	A	E2	-0.59	108.90	-8.89	-1.09	1.06	1.71	0.02	0.06	23	0.996	3.16	27	POS	0
Missouri	st4	1109	A	E2	-2.22	106.40	-8.97	-1.04	1.34	2.26	0.02	0.08	23	0.993	3.96	27	POS	0
Missouri	st4	1111	A	E2	2.34	107.40	-8.95	-1.08	2.49	4.26	0.05	0.15	23	0.972	7.52	27	POS	0
Lovelace	st1	19-Dec-08	A/	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st1	20081123	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st1	20081218	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Dietrich	st1	Assay03	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st1	20090113	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st1	20090121	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st1	20090128	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st1	7003	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st1	7004	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st1	7005	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st1	7006	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st1	7007	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Lovelace	st12	05July10EtOH_Buff	A/A	P4	-2.E+12	97.52	-5.28	-0.49	3.E+12	3.20	0.10	0.16	20	0.815	11.04	24	NEG	0
Lovelace	st12	05July10EtOH_Buff	A/A	Kepone	10.41	96.80	-8.94	-0.91	1.04	1.31	0.03	0.08	20	0.995	2.93	24	POS	0
Lovelace	st12	05July10EtOH_Buff	A/A	Heptylphenol	4.66	87.79	-9.22	-1.06	1.58	2.14	0.06	0.16	20	0.986	4.85	24	WEAK	0
Lovelace	st12	06Oct09EtOH_Buff	A/A	EE2	8.86	.	-11.86	-0.20	3.11	.	2.33	0.26	20	0.894	5.21	24	POS	0
Lovelace	st12	05July10EtOH_Buff	A/A	EE2	7.58	70.73	-8.81	-0.97	2.65	2.65	0.13	0.22	20	0.949	7.03	24	POS	0
Lovelace	st12	06Oct09EtOH_Buff	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st12	05July10EtOH_Buff	A/A	E2-TC	-0.28	72.07	-9.35	-0.76	1.02	1.23	0.05	0.06	20	0.994	2.63	24	POS	0
Lovelace	st12	06Oct09EtOH_Buff	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st12	05July10EtOH_Buff	A/A	DBP-TC	-1.E+09	82.36	-4.53	-0.25	2.E+12	3.61	0.13	0.07	20	0.842	6.70	24	NEG	0
Lovelace	st12	06Oct09EtOH	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	09July10EtOH	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	05July10EtOH_Buff	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090307	A/A	Total Binding	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090307	A/A	SDS	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090326	A/A	SDS	-3.18	106.40	.	.	17.43	2.68	.	.	20	0.965	9.96	24	NEG	0
Ceetox	st2	20090124	A/A	NPhenol	22.17	72.87	.	.	3.48	3.46	.	.	20	0.865	10.40	24	POS	1
Ceetox	st2	20090202	A/A	NPhenol	13.69	81.74	-5.54	-1.32	5.43	3.71	0.17	0.49	20	0.875	12.45	24	POS	1
Ceetox	st2	20090223	A/A	NPhenol	0.44	101.60	-5.61	-0.83	3.50	2.26	0.07	0.12	20	0.980	6.66	24	POS	0
Ceetox	st2	20090307	A/A	NPhenol	10.66	116.70	-5.97	-2.02	3.23	3.04	0.05	1.68	20	0.971	9.25	24	POS	0
Ceetox	st2	20090326	A/A	NPhenol	10.32	115.70	-5.79	-0.79	4.08	3.31	0.10	0.15	20	0.969	8.72	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st2	20090124	A/A	Hexestrol	8.76	.	-9.92	-0.44	1.53	.	0.06	0.29	20	0.907	5.13	24	POS	1
Ceetox	st2	20090202	A/A	Hexestrol	2.74	68.03	-8.38	-0.69	1.08	2.29	0.08	0.08	20	0.987	3.13	24	POS	1
Ceetox	st2	20090223	A/A	Hexestrol	-2.65	101.70	-7.47	-1.34	1.69	2.45	0.05	0.15	20	0.988	5.65	24	POS	0
Ceetox	st2	20090307	A/A	Hexestrol	5.21	115.80	-7.42	-1.44	1.39	1.39	0.04	0.11	20	0.995	4.05	24	POS	0
Ceetox	st2	20090326	A/A	Hexestrol	1.65	108.90	-7.62	-1.17	1.83	1.89	0.05	0.13	20	0.990	5.20	24	POS	0
Ceetox	st2	20090124	A/A	Gen	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Ceetox	st2	20090202	A/A	Gen	11.96	77.34	-7.77	-1.29	2.47	3.70	0.11	0.37	20	0.933	8.30	24	POS	1
Ceetox	st2	20090223	A/A	Gen	-2.42	97.53	-6.98	-1.15	2.71	2.13	0.05	0.23	20	0.982	6.50	24	POS	0
Ceetox	st2	20090307	A/A	Gen	2.87	111.90	-7.11	-1.31	1.51	1.44	0.03	0.15	20	0.994	4.20	24	POS	0
Ceetox	st2	20090326	A/A	Gen	1.81	96.41	-7.23	-1.00	2.25	2.06	0.06	0.14	20	0.985	5.72	24	POS	0
Ceetox	st2	20090124	A/A	Equol	2.83	.	.	-1.24	3.56	.	.	1.94	20	0.732	10.35	24	POS	1
Ceetox	st2	20090202	A/A	Equol	5.95	78.21	-7.22	-0.98	2.59	3.26	0.11	0.27	20	0.955	7.52	24	POS	1
Ceetox	st2	20090223	A/A	Equol	-1.57	94.14	-6.87	-0.88	4.14	4.64	0.12	0.23	20	0.944	11.05	24	POS	0
Ceetox	st2	20090307	A/A	Equol	-0.13	111.90	-6.65	-1.04	1.53	1.63	0.04	0.09	20	0.994	4.26	24	POS	0
Ceetox	st2	20090326	A/A	Equol	2.01	101.20	-6.75	-1.06	1.86	1.99	0.05	0.13	20	0.989	5.21	24	POS	0
Ceetox	st2	20090202	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Ceetox	st2	20090223	A/A	EE2	-0.27	94.61	-8.42	-1.16	4.87	3.19	0.11	0.28	20	0.947	10.54	24	POS	0
Ceetox	st2	20090307	A/A	EE2	4.46	115.10	-8.47	-1.20	3.09	2.11	0.06	0.16	20	0.983	6.96	24	POS	0
Ceetox	st2	20090326	A/A	EE2	1.54	97.07	-8.31	-1.81	1.79	1.78	0.06	0.33	20	0.989	5.27	24	POS	0
Ceetox	st2	20090124	A/A	E2-TC	7.15	.	.	-0.88	1.88	.	.	0.30	19	0.842	6.22	23	POS	1
Ceetox	st2	20090124	A/A	DES	4.45	6.E+03	-9.51	-0.25	5.03	6.E+05	0.14	0.20	19	0.913	6.61	23	POS	1
Ceetox	st2	20090202	A/A	DES	3.70	450.50	-10.07	-0.44	0.81	2.E+03	0.04	0.14	20	0.980	2.21	24	POS	1
Ceetox	st2	20090223	A/A	DES	0.40	97.38	-8.13	-1.32	1.47	3.15	0.05	0.28	20	0.985	5.30	24	POS	0
Ceetox	st2	20090307	A/A	DES	1.31	118.50	-8.09	-1.08	1.57	2.22	0.04	0.11	20	0.992	4.94	24	POS	0
Ceetox	st2	20090326	A/A	DES	2.54	129.10	-8.38	-0.81	1.63	2.91	0.05	0.07	20	0.992	4.96	24	POS	0
Ceetox	st2	20090124	A/A	DDT	25.08	71.69	.	.	4.06	3.67	.	.	20	0.812	11.42	24	POS	1
Ceetox	st2	20090202	A/A	DDT	19.56	81.02	.	.	3.11	2.78	.	.	20	0.929	8.68	24	POS	1
Ceetox	st2	20090223	A/A	DDT	19.32	100.10	-5.63	-1.13	2.34	1.70	0.07	0.20	20	0.982	5.35	24	POS	0
Ceetox	st2	20090307	A/A	DDT	20.82	113.90	-6.88	-2.30	2.37	2.09	0.16	2.91	20	0.981	6.53	24	POS	0
Ceetox	st2	20090326	A/A	DDT	18.46	107.00	-5.68	-0.91	2.73	2.13	0.08	0.16	20	0.979	6.08	24	POS	0
Ceetox	st2	20090124	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Ceetox	st2	20090202	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Ceetox	st2	20090223	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st2	20090307	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st2	20090326	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st2	20090124	A/A	Cort	2.E+07	45.81	-7.09	-0.24	5.E+12	6.50	1.70	0.15	20	0.560	13.72	24	NEG	1
Ceetox	st2	20090202	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Ceetox	st2	20090223	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090307	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090326	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090124	A/A	ButylPar	24.29	85.63	.	.	18.72	5.16	.	.	20	0.767	17.25	24	POS	1
Ceetox	st2	20090202	A/A	ButylPar	3.27	71.19	-5.26	-0.58	21.57	5.49	0.36	0.40	20	0.715	15.61	24	POS	1
Ceetox	st2	20090223	A/A	ButylPar	-53.01	101.80	-4.42	-0.41	57.11	3.81	0.13	0.14	20	0.947	9.02	24	POS	0
Ceetox	st2	20090307	A/A	ButylPar	-5.20	115.30	-4.60	-0.54	15.46	3.97	0.14	0.14	20	0.943	10.66	24	POS	0
Ceetox	st2	20090326	A/A	ButylPar	-9.56	114.40	-4.55	-0.47	13.03	2.75	0.09	0.09	20	0.975	6.72	24	POS	0
Ceetox	st2	20090307	A/A	Buffer Control	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st2	20090326	A/A	Buffer Control	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st2	Assay04	A/A	NPhenol	28.30	50.00	.	.	3.26	0.00	.	.	20	0.462	10.38	24	POS	1
Dietrich	st2	Assay05	A/A	NPhenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay06	A/A	NPhenol	-3.E+07	59.57	-5.53	-1.05	4.E+12	1.99	0.37	0.76	20	0.698	8.15	24	POS	0
Dietrich	st2	Assay16	A/A	NPhenol	10.73	106.70	-6.12	-0.70	3.86	3.58	0.11	0.13	20	0.965	8.32	24	POS	0
Dietrich	st2	Assay04	A/A	Hexestrol	17.09	135.10	-7.79	-2.26	2.81	4.31	0.31	3.34	16	0.977	9.09	20	POS	0
Dietrich	st2	Assay05	A/A	Hexestrol	1.43	52.19	-8.31	-1.96	4.75	6.77	0.65	1.79	20	0.706	16.35	24	POS	0
Dietrich	st2	Assay06	A/A	Hexestrol	-1.25	67.44	-8.18	-1.02	1.54	2.53	0.09	0.17	20	0.975	5.00	24	POS	0
Dietrich	st2	Assay04	A/A	Gen	6.16	105.30	-6.40	-1.34	7.75	4.72	0.14	0.41	16	0.913	14.58	20	POS	0
Dietrich	st2	Assay05	A/A	Gen	4.33	104.00	-5.99	-1.02	1.83	1.54	0.04	0.12	20	0.992	4.43	24	POS	0
Dietrich	st2	Assay06	A/A	Gen	4.77	77.66	-7.07	-2.94	2.80	2.33	0.42	18.71	20	0.961	7.49	24	POS	0
Dietrich	st2	Assay04	A/A	Equol	6.43	140.20	-4.84	-0.71	24.15	4.98	0.19	0.27	20	0.890	16.51	24	POS	0
Dietrich	st2	Assay05	A/A	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay06	A/A	Equol	4.76	65.38	-6.46	-1.41	4.26	1.49	0.15	0.52	20	0.944	5.68	24	POS	0
Dietrich	st2	Assay04	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	20	POS	1
Dietrich	st2	Assay05	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay06	A/A	EE2	0.95	98.18	-8.57	-0.91	3.07	1.98	0.06	0.13	20	0.982	6.10	24	POS	0
Dietrich	st2	Assay16	A/A	EE2	1.05	.	-11.83	-0.19	13.55	.	2.02	0.66	20	0.640	20.51	24	POS	0
Dietrich	st2	Assay16	A/A	E2	.	.	.	.	.	.	.	.	.	.	.		POS	0
Dietrich	st2	Assay04	A/A	DES	9.50	57.81	-7.96	-1.79	4.47	5.83	0.40	1.41	16	0.765	13.98	20	POS	1
Dietrich	st2	Assay05	A/A	DES	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay06	A/A	DES	4.84	71.31	-8.53	-1.29	4.75	3.13	0.19	0.51	20	0.899	10.52	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Dietrich	st2	Assay16	A/A	DES	14.57	.	-12.06	-0.35	4.68	.	0.92	0.31	20	0.807	13.90	24	POS	0
Dietrich	st2	Assay04	A/A	DDT	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Dietrich	st2	Assay05	A/A	DDT	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay06	A/A	DDT	50.00	323.60	.	.	0.01	51176.00	.	.	20	0.226	12.02	24	POS	1
Dietrich	st2	Assay16	A/A	DDT	-2.E+12	114.40	-5.37	-0.19	3.E+12	8.64	0.27	0.09	20	0.777	13.96	24	POS	0
Dietrich	st2	Assay04	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Dietrich	st2	Assay05	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Dietrich	st2	Assay06	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st2	Assay04	A/A	Cort	35.71	91.01	.	.	7.50	10.60	.	.	20	0.550	25.96	24	NEG	1
Dietrich	st2	Assay05	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Dietrich	st2	Assay06	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st2	Assay16	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st2	Assay04	A/A	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay05	A/A	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st2	Assay06	A/A	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Dietrich	st2	Assay16	A/A	ButylPar	43.28	112.30	-4.08	-0.78	7.58	1.81	0.31	0.20	20	0.943	6.18	24	POS	0
Freyberger	st2	A	A/A	NPhenol	8.67	103.30	-4.68	-0.61	5.43	1.74	0.08	0.09	20	0.982	4.99	24	POS	0
Freyberger	st2	B	A/A	NPhenol	8.49	87.78	-6.06	-1.00	1.22	1.00	0.03	0.09	20	0.994	2.89	24	POS	0
Freyberger	st2	D	A/A	NPhenol	1.81	87.30	-6.10	-0.82	1.53	1.17	0.04	0.07	20	0.994	3.22	24	POS	0
Freyberger	st2	A	A/A	Hexestrol	-0.42	94.70	-7.46	-1.29	0.50	0.72	0.02	0.05	20	0.999	1.65	24	POS	0
Freyberger	st2	B	A/A	Hexestrol	0.79	83.47	-7.45	-1.18	3.08	4.43	0.13	0.34	20	0.941	9.99	24	POS	0
Freyberger	st2	D	A/A	Hexestrol	-1.95	93.11	-7.79	-1.00	1.03	1.71	0.03	0.08	20	0.994	3.33	24	POS	0
Freyberger	st2	A	A/A	Gen	-0.85	93.86	-6.38	-1.40	1.45	1.14	0.03	0.12	17	0.995	3.32	21	POS	0
Freyberger	st2	B	A/A	Gen	2.97	78.26	.	.	6.92	5.64	.	.	17	0.842	16.94	21	POS	0
Freyberger	st2	D	A/A	Gen	-1.07	92.35	-6.00	-2.03	5.79	3.45	0.06	2.93	17	0.943	11.09	21	POS	0
Freyberger	st2	A	A/A	Equol	1.53	90.75	-7.04	-1.00	0.88	1.07	0.03	0.07	20	0.997	2.53	24	POS	0
Freyberger	st2	B	A/A	Equol	4.00	96.75	-7.06	-0.91	1.94	2.53	0.06	0.13	20	0.984	5.54	24	POS	0
Freyberger	st2	D	A/A	Equol	0.59	98.76	-6.71	-1.00	0.66	0.69	0.02	0.04	20	0.999	1.80	24	POS	0
Freyberger	st2	A	A/A	EE2	0.95	96.42	-8.71	-1.15	0.81	2.31	0.03	0.09	20	0.994	3.03	24	POS	0
Freyberger	st2	B	A/A	EE2	2.21	90.49	-8.59	-1.26	1.30	3.30	0.05	0.15	20	0.983	4.88	24	POS	0
Freyberger	st2	D	A/A	EE2	-1.22	100.80	-8.89	-1.07	0.37	1.38	0.01	0.05	20	0.999	1.38	24	POS	0
Freyberger	st2	A	A/A	DES	3.15	98.60	-8.10	-1.32	0.57	1.21	0.02	0.11	20	0.998	2.05	24	POS	0
Freyberger	st2	B	A/A	DES	2.13	91.73	-8.11	-1.49	0.54	1.08	0.02	0.16	20	0.998	1.94	24	POS	0
Freyberger	st2	D	A/A	DES	1.92	95.84	-8.25	-1.22	0.51	1.20	0.02	0.07	20	0.998	1.85	24	POS	0
Freyberger	st2	A	A/A	DDT	-8.E+12	126.70	-6.10	-0.06	1.E+13	73.09	0.89	0.06	17	0.466	23.20	21	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st2	B	A/A	DDT	20.62	95.94	-6.02	-1.36	1.93	1.43	0.04	0.25	17	0.987	4.19	21	POS	0
Freyberger	st2	D	A/A	DDT	19.71	101.40	-5.73	-1.10	1.74	0.95	0.04	0.12	17	0.994	2.84	21	POS	0
Freyberger	st2	A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	B	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	D	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	A	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	B	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	D	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st2	A	A/A	ButylPar	8.67	103.30	-4.68	-0.61	5.43	1.74	0.08	0.09	20	0.982	4.99	24	POS	0
Freyberger	st2	B	A/A	ButylPar	-14.11	93.12	-4.59	-0.51	9.63	1.41	0.06	0.07	20	0.987	3.89	24	POS	0
Freyberger	st2	D	A/A	ButylPar	11.56	97.77	-4.74	-0.73	5.22	1.90	0.09	0.13	20	0.972	5.92	24	POS	0
JapanCERI	st2	20090422	A/A	NPhenol	5.83	107.00	-6.17	-0.80	1.02	0.94	0.03	0.04	20	0.998	2.39	24	POS	0
JapanCERI	st2	20090427	A/A	NPhenol	5.60	106.90	-6.16	-0.85	1.27	1.17	0.03	0.06	20	0.996	3.05	24	POS	0
JapanCERI	st2	20090430	A/A	NPhenol	6.09	105.10	-6.11	-0.75	1.24	1.10	0.03	0.05	20	0.996	2.73	24	POS	0
JapanCERI	st2	20090422	A/A	Hexestrol	1.97	105.20	-7.46	-0.95	0.85	1.33	0.03	0.05	20	0.997	2.67	24	POS	0
JapanCERI	st2	20090427	A/A	Hexestrol	1.11	104.50	-7.40	-1.02	0.51	0.77	0.02	0.03	20	0.999	1.62	24	POS	0
JapanCERI	st2	20090430	A/A	Hexestrol	0.75	99.18	-7.50	-1.00	1.67	2.58	0.05	0.12	20	0.987	5.32	24	POS	0
JapanCERI	st2	20090422	A/A	Gen	-0.34	105.00	-6.86	-0.84	1.10	1.02	0.02	0.04	17	0.998	2.26	21	POS	0
JapanCERI	st2	20090427	A/A	Gen	-0.25	105.10	-6.81	-0.91	0.88	0.80	0.02	0.04	17	0.999	1.88	21	POS	0
JapanCERI	st2	20090430	A/A	Gen	-1.01	103.30	-6.88	-0.80	1.57	1.46	0.03	0.06	17	0.996	3.14	21	POS	0
JapanCERI	st2	20090422	A/A	Equol	3.59	106.10	-7.15	-0.93	0.50	0.71	0.01	0.03	20	0.999	1.50	24	POS	0
JapanCERI	st2	20090427	A/A	Equol	2.72	105.60	-7.15	-1.04	0.56	0.79	0.02	0.04	20	0.999	1.75	24	POS	0
JapanCERI	st2	20090430	A/A	Equol	2.93	102.40	-7.05	-1.04	0.48	0.63	0.01	0.04	20	0.999	1.45	24	POS	0
JapanCERI	st2	20090422	A/A	EE2	0.84	101.20	-8.67	-1.09	0.31	0.93	0.01	0.03	20	0.999	1.16	24	POS	0
JapanCERI	st2	20090427	A/A	EE2	0.98	104.20	-8.61	-1.07	0.47	1.39	0.02	0.04	20	0.998	1.75	24	POS	0
JapanCERI	st2	20090430	A/A	EE2	1.19	96.65	-8.55	-1.14	0.39	1.06	0.02	0.04	20	0.999	1.46	24	POS	0
JapanCERI	st2	20090422	A/A	DES	1.20	101.00	-8.17	-1.12	0.32	0.75	0.01	0.04	20	0.999	1.14	24	POS	0
JapanCERI	st2	20090427	A/A	DES	0.64	107.00	-8.20	-0.96	0.41	1.08	0.01	0.04	20	0.999	1.44	24	POS	0
JapanCERI	st2	20090430	A/A	DES	0.85	100.70	-8.23	-0.94	0.55	1.42	0.02	0.05	20	0.998	1.90	24	POS	0
JapanCERI	st2	20090422	A/A	DDT	13.04	107.30	-6.08	-0.85	0.99	0.92	0.03	0.05	20	0.997	2.38	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st2	20090427	A/A	DDT	11.85	106.70	-6.18	-0.72	2.53	2.44	0.07	0.09	20	0.983	5.69	24	POS	0
JapanCERI	st2	20090430	A/A	DDT	9.94	106.60	-6.07	-0.80	2.03	1.83	0.05	0.09	20	0.989	4.66	24	POS	0
JapanCERI	st2	20090422	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st2	20090427	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st2	20090430	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st2	20090422	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st2	20090427	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st2	20090430	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st2	20090422	A/A	ButylPar	-1.45	102.20	-4.71	-0.51	11.97	2.95	0.12	0.12	20	0.959	7.65	24	POS	0
JapanCERI	st2	20090427	A/A	ButylPar	-5.57	104.20	-4.82	-0.45	15.82	3.86	0.14	0.12	20	0.949	8.72	24	POS	0
JapanCERI	st2	20090430	A/A	ButylPar	-2.12	106.10	-4.78	-0.47	8.51	2.25	0.08	0.07	20	0.981	5.25	24	POS	0
Lovelace	st2	24Feb09EtOH	A/A	NPhenol	-1.E+12	127.70	-5.98	-0.12	5.E+12	14.91	0.16	0.04	20	0.908	9.72	24	POS	0
Lovelace	st2	01May09EtOH	A/A	Hexestrol	8.09	105.90	-7.22	-0.63	7.70	7.33	0.21	0.23	20	0.885	15.70	24	POS	0
Lovelace	st2	01May09EtOH	A/A	Gen	7.67	94.78	-7.02	-0.82	2.46	1.99	0.07	0.12	20	0.983	5.36	24	POS	0
Lovelace	st2	24Feb09EtOH	A/A	Equol	7.89	88.56	-6.95	-1.96	6.68	5.13	0.14	3.89	20	0.853	16.89	24	POS	1
Lovelace	st2	01May09EtOH	A/A	DES	12.50	94.77	-7.76	-0.97	2.38	1.73	0.06	0.15	20	0.983	5.20	24	POS	0
Lovelace	st2	24Feb09EtOH	A/A	DES	1.37	95.78	-8.34	-0.69	2.21	2.00	0.06	0.08	20	0.988	4.67	24	POS	0
Lovelace	st2	24Feb09EtOH	A/A	DDT	-38.33	97.83	-5.31	-0.90	667.40	3.52	0.52	1.90	20	0.789	12.77	24	POS	0
Lovelace	st2	01May09EtOH	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Lovelace	st2	24Feb09EtOH	A/A	DBP	43.00	93.53	.	.	79.71	3.11	.	.	17	0.765	10.77	21	NEG	0
Lovelace	st2	01May09EtOH	A/A	ButylPar	26.49	92.25	-4.79	-1.17	10.16	2.35	0.16	0.66	20	0.877	8.80	24	POS	0
Lovelace	st2	24Feb09EtOH	A/A	ButylPar	20.51	109.60	-5.45	-0.54	4.65	1.56	0.08	0.07	20	0.986	4.01	24	POS	0
Missouri	st2	9003	A/A	NPhenol	1.02	106.00	-5.47	-0.62	3.22	1.79	0.06	0.07	20	0.989	4.63	24	POS	0
Missouri	st2	9004	A/A	NPhenol	13.26	101.30	-5.39	-0.85	2.13	1.34	0.05	0.09	20	0.990	4.05	24	POS	0
Missouri	st2	9005	A/A	NPhenol	-1.05	94.25	-5.64	-0.67	2.88	1.65	0.06	0.07	20	0.989	4.45	24	POS	0
Missouri	st2	9007	A/A	NPhenol	-0.15	107.70	-5.30	-0.59	3.30	1.61	0.05	0.06	20	0.991	4.15	24	POS	0
Missouri	st2	9003	A/A	Hexestrol	0.64	104.00	-7.53	-1.21	0.57	0.85	0.02	0.05	20	0.999	1.89	24	POS	0
Missouri	st2	9004	A/A	Hexestrol	0.94	100.10	-7.58	-1.17	0.67	1.01	0.02	0.05	20	0.998	2.20	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st2	9005	A/A	Hexestrol	-1.95	96.15	-7.61	-1.17	0.69	1.03	0.02	0.06	20	0.998	2.27	24	POS	0
Missouri	st2	9007	A/A	Hexestrol	1.22	105.60	-7.67	-1.16	0.54	0.84	0.02	0.05	20	0.999	1.79	24	POS	0
Missouri	st2	9003	A/A	GenW	-0.03	105.40	-6.75	-1.16	1.58	1.13	0.03	0.10	20	0.995	3.60	24	POS	0
Missouri	st2	9004	A/A	GenW	-0.25	99.49	-6.72	-1.12	2.07	1.51	0.04	0.12	19	0.991	4.62	23	POS	0
Missouri	st2	9005	A/A	GenW	-2.42	95.49	-6.81	-1.07	2.07	1.45	0.04	0.12	20	0.991	4.57	24	POS	0
Missouri	st2	9007	A/A	GenW	1.05	103.30	-6.68	-1.10	2.08	1.45	0.04	0.12	20	0.991	4.62	24	POS	0
Missouri	st2	9003	A/A	GenB	0.12	105.20	-7.24	-0.94	0.98	0.91	0.02	0.05	20	0.998	2.47	24	POS	0
Missouri	st2	9004	A/A	GenB	2.09	105.40	-7.26	-0.74	2.30	2.14	0.06	0.08	20	0.988	5.16	24	POS	0
Missouri	st2	9005	A/A	GenB	-1.42	98.08	-7.28	-1.13	1.39	1.32	0.04	0.10	20	0.994	3.73	24	POS	0
Missouri	st2	9007	A/A	GenB	0.03	103.30	-6.96	-0.91	2.26	1.80	0.05	0.11	20	0.989	5.08	24	POS	0
Missouri	st2	9003	A/A	Equol	2.83	106.60	-6.26	-1.13	1.11	1.08	0.03	0.07	20	0.997	3.03	24	POS	0
Missouri	st2	9004	A/A	Equol	6.20	100.50	-6.21	-1.26	1.44	1.54	0.04	0.14	18	0.993	4.01	22	POS	0
Missouri	st2	9005	A/A	Equol	0.46	100.50	-6.36	-1.03	1.59	1.54	0.04	0.09	20	0.993	4.22	24	POS	0
Missouri	st2	9007	A/A	Equol	3.40	101.10	-6.09	-1.22	1.50	1.36	0.03	0.15	20	0.993	3.96	24	POS	0
Missouri	st2	9003	A/A	EE2	1.49	104.90	-8.86	-1.13	0.56	2.03	0.02	0.08	20	0.997	2.10	24	POS	0
Missouri	st2	9004	A/A	EE2	0.53	102.00	-8.90	-1.06	1.17	3.57	0.03	0.12	14	0.994	3.25	18	POS	0
Missouri	st2	9005	A/A	EE2	-2.06	98.90	-8.89	-1.10	0.87	2.32	0.02	0.09	14	0.997	2.44	18	POS	0
Missouri	st2	9007	A/A	EE2	0.68	106.10	-8.51	-0.73	0.96	3.91	0.04	0.06	20	0.993	3.16	24	POS	0
Missouri	st2	9003	A/A	DES	0.74	103.40	-8.53	-0.96	0.54	1.65	0.02	0.04	20	0.998	1.94	24	POS	0
Missouri	st2	9004	A/A	DES	0.28	100.40	-8.58	-0.91	0.53	1.73	0.02	0.04	20	0.998	1.88	24	POS	0
Missouri	st2	9005	A/A	DES	-1.69	95.85	-8.62	-0.97	0.67	2.06	0.03	0.06	20	0.996	2.44	24	POS	0
Missouri	st2	9007	A/A	DES	1.36	103.80	-8.39	-1.23	0.30	0.74	0.01	0.03	20	0.999	1.10	24	POS	0
Missouri	st2	9003	A/A	DDT	21.25	104.30	-5.16	-1.46	1.35	0.62	0.02	0.09	17	0.997	2.11	21	POS	0
Missouri	st2	9004	A/A	DDT	25.97	99.90	-5.06	-2.68	3.12	1.54	0.08	3.20	17	0.975	5.33	21	POS	0
Missouri	st2	9005	A/A	DDT	16.87	92.17	-5.31	-1.36	1.82	0.82	0.03	0.11	17	0.993	2.76	21	POS	0
Missouri	st2	9007	A/A	DDT	26.87	104.40	-5.00	-1.71	2.02	0.94	0.03	0.29	17	0.991	3.23	21	POS	0
Missouri	st2	9003	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	9004	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	9005	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	9007	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st2	9003	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st2	9004	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0
Missouri	st2	9005	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st2	9007	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st2	9003	A/A	ButylPar	-8.70	102.20	-4.22	-0.81	5.24	1.07	0.04	0.09	20	0.991	3.74	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st2	9004	A/A	ButylPar	-1.07	97.66	-4.13	-1.07	3.56	0.94	0.03	0.12	20	0.991	3.47	24	POS	0
Missouri	st2	9005	A/A	ButylPar	-10.16	93.48	-4.32	-0.81	5.10	1.04	0.04	0.09	20	0.990	3.62	24	POS	0
Missouri	st2	9007	A/A	ButylPar	-11.05	104.80	-4.08	-0.92	7.25	1.40	0.05	0.14	20	0.984	5.07	24	POS	0
Ceetox	st3	20090418	A/A	Zear	22.76	65.52	.	.	9.26	13.11	.	.	20	0.308	32.08	24	POS	1
Ceetox	st3	20090505	A/A	Zear	3.40	85.13	-7.93	-1.17	1.75	1.27	0.04	0.16	20	0.990	4.04	24	POS	0
Ceetox	st3	20090505DMSO	A/A	Zear	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st3	20090418B	A/A	TB (Solvent only)_2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505chem14	A/A	TB (Solvent only)_2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418B	A/A	TB (Solvent only)	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505chem14	A/A	TB (Solvent only)	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418	A/A	Tamox	1.79	119.80	-7.78	-0.83	2.42	5.31	0.07	0.14	20	0.977	7.71	24	POS	0
Ceetox	st3	20090505	A/A	Tamox	1.35	83.43	-7.91	-1.13	1.61	2.60	0.06	0.18	20	0.981	5.33	24	POS	0
Ceetox	st3	20090505DMSO	A/A	SDS	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Ceetox	st3	20090505	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418	A/A	NE-TC	2.58	113.90	-6.30	-0.76	7.41	4.30	0.13	0.20	20	0.939	12.59	24	POS	0
Ceetox	st3	20090505	A/A	NE-TC	2.76	92.36	-6.35	-0.80	2.92	1.56	0.06	0.10	20	0.986	4.76	24	POS	0
Ceetox	st3	20090418	A/A	Kepone	13.39	101.90	-5.08	-1.27	4.22	2.69	0.08	0.36	20	0.954	9.05	24	POS	0
Ceetox	st3	20090505	A/A	Kepone	7.98	86.74	-5.41	-1.04	2.83	1.78	0.07	0.17	20	0.975	5.79	24	POS	0
Ceetox	st3	20090418	A/A	Heptylphenol	2.05	105.20	.	.	82.21	1.88	.	.	20	0.963	7.29	24	WEAK	0
Ceetox	st3	20090505	A/A	Heptylphenol	-2.E+12	88.64	-4.54	-0.67	8.E+12	1.92	0.07	0.10	20	0.953	7.00	24	WEAK	0
Ceetox	st3	20090418	A/A	ELactone	16.14	102.40	-4.30	-0.60	21.50	3.01	0.18	0.24	20	0.897	9.33	24	WEAK	1
Ceetox	st3	20090505	A/A	ELactone	30.01	92.91	-4.27	-0.85	6.88	2.34	0.18	0.28	20	0.910	7.97	24	WEAK	0
Ceetox	st3	20090418	A/A	E2-TC	-0.69	115.60	-8.78	-0.82	1.31	2.76	0.04	0.07	20	0.993	4.12	24	POS	0
Ceetox	st3	20090505	A/A	E2-TC	-0.10	83.44	-8.77	-1.22	1.33	1.35	0.04	0.12	20	0.992	3.78	24	POS	0
Ceetox	st3	20090418	A/A	DHT	7.98	119.80	-5.60	-0.74	3.83	2.77	0.08	0.11	20	0.980	7.33	24	POS	0
Ceetox	st3	20090418	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st3	20090418	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090505 DMSO	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090418DMSO	A/A	Buffer Control	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505DMSO	A/A	Buffer Control	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418	A/A	BPA	6.67	113.90	-6.10	-0.96	4.01	2.82	0.09	0.18	20	0.972	8.57	24	POS	1
Ceetox	st3	20090505	A/A	BPA	8.81	92.00	-6.04	-1.58	1.99	1.74	0.04	0.53	20	0.984	5.34	24	POS	0
Ceetox	st3	20090418DMSO	A/A	BaA_DMSO	.	112.80	.	.	.	107.50	.	.	20	0.892	9.24	24	NEG	0
Ceetox	st3	20090505DMSO	A/A	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418B	A/A	Atr-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505chem14	A/A	Atr-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090418B	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090505chem14	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay09	A/A	Zear	-3.60	105.60	-8.62	-0.46	3.53	3.55	0.07	0.06	19	0.987	4.98	23	POS	0
Dietrich	st3	Assay10_2	A/A	Tamox	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st3	Assay12_2	A/A	Tamox	5.30	67.93	-7.48	-1.67	1.36	1.34	0.10	0.38	20	0.985	3.96	24	POS	0
Dietrich	st3	Assay13_2	A/A	Tamox	4.49	71.81	-7.48	-1.56	1.39	1.37	0.08	0.28	20	0.986	4.03	24	POS	0
Dietrich	st3	Assay14_1	A/A	Tamox	5.09	94.65	-7.72	-0.90	1.81	1.96	0.05	0.11	20	0.987	4.82	24	POS	0
Dietrich	st3	Assay09	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay09	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay10_1	A/A	NPhenol	-69.27	.	.	.	492.30	.	.	.	20	0.818	6.09	24	POS	1
Dietrich	st3	Assay12_1	A/A	NPhenol	9.31	68.16	-6.18	-0.77	2.18	1.45	0.09	0.12	20	0.977	4.09	24	POS	0
Dietrich	st3	Assay13	A/A	NPhenol	9.33	69.83	-6.03	-0.92	1.50	1.01	0.06	0.11	20	0.988	3.07	24	POS	0
Dietrich	st3	Assay14_1	A/A	NPhenol	-6.77	98.89	-5.85	-0.32	12.22	5.99	0.12	0.08	20	0.966	6.56	24	POS	0
Dietrich	st3	Assay10_1	A/A	Nethdrone	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st3	Assay12_1	A/A	Nethdrone	3.95	69.75	-6.38	-0.95	2.41	1.25	0.08	0.16	20	0.980	4.15	24	POS	0
Dietrich	st3	Assay13	A/A	Nethdrone	3.13	71.71	-6.38	-0.93	2.48	1.30	0.08	0.15	20	0.980	4.29	24	POS	0
Dietrich	st3	Assay14_1	A/A	Nethdrone	8.38	89.82	-6.02	-1.11	3.83	2.06	0.07	0.29	20	0.964	7.04	24	POS	0
Dietrich	st3	Assay10_1	A/A	NE-TC	-2.E+11	.	.	-0.09	1.E+12	.	.	0.06	20	0.701	7.27	24	POS	1
Dietrich	st3	Assay12_1	A/A	NE-TC	2.92	77.94	-6.36	-0.87	2.89	1.43	0.07	0.13	20	0.981	4.56	24	POS	0
Dietrich	st3	Assay13	A/A	NE-TC	1.19	79.91	-6.35	-0.77	2.63	1.18	0.06	0.09	20	0.988	3.65	24	POS	0
Dietrich	st3	Assay14_1	A/A	NE-TC	10.17	107.70	.	.	4.91	3.23	.	.	20	0.944	11.33	24	POS	0
Dietrich	st3	Assay10_2	A/A	Kepone	.	.	.	.	.	.	.	.	.	.	.	24	POS	1

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Dietrich	st3	Assay12_2	A/A	Kepone	12.53	64.89	.	.	171.00	3.47	.	.	20	0.661	13.44	24	POS	1
Dietrich	st3	Assay14_1	A/A	Kepone	11.81	105.40	-5.69	-1.30	3.91	1.71	0.08	0.30	20	0.978	6.28	24	POS	0
Dietrich	st3	Assay15 (III)	A/A	Kepone	16.87	111.70	-6.00	-2.20	3.09	2.90	0.04	0.45	20	0.969	8.26	24	POS	0
Dietrich	st3	Assay16 (III)	A/A	Kepone	13.21	108.80	-5.99	-1.64	2.76	2.41	0.04	0.24	20	0.979	6.51	24	POS	0
Dietrich	st3	Assay09	A/A	HPTE	-0.76	95.00	-7.05	-0.78	2.16	1.67	0.05	0.08	20	0.990	4.46	24	POS	0
Dietrich	st3	Assay10_1	A/A	Hexestrol	0.73	69.88	-8.12	-0.93	3.61	6.14	0.21	0.35	20	0.881	11.48	24	POS	0
Dietrich	st3	Assay11	A/A	Hexestrol	0.55	79.07	-8.05	-0.81	4.07	7.80	0.19	0.31	20	0.882	12.53	24	POS	0
Dietrich	st3	Assay12_1	A/A	Hexestrol	1.99	75.51	-8.00	-0.82	1.36	2.87	0.07	0.11	18	0.982	4.14	22	POS	0
Dietrich	st3	Assay13	A/A	Hexestrol	1.60	76.32	-7.88	-0.93	1.38	2.71	0.07	0.12	18	0.982	4.35	22	POS	0
Dietrich	st3	Assay10_1	A/A	Heptylphenol	-9.E+10	92.48	-3.41	-0.78	1.E+13	1.71	0.06	0.12	20	0.963	6.21	24	WEAK	0
Dietrich	st3	Assay12_1	A/A	Heptylphenol	-4.E+08	106.50	-3.86	-0.27	8.E+12	4.28	0.16	0.08	20	0.946	8.19	24	WEAK	0
Dietrich	st3	Assay13	A/A	Heptylphenol	-8.E+11	106.80	-3.72	-0.33	2.E+12	1.94	0.05	0.03	20	0.977	5.31	24	WEAK	0
Dietrich	st3	Assay10_1	A/A	Gen	-15.40	.	.	-0.20	33.94	.	.	0.08	20	0.857	6.18	24	POS	1
Dietrich	st3	Assay12_1	A/A	Gen	1.19	71.40	-7.29	-0.86	1.31	0.97	0.05	0.08	20	0.993	2.77	24	POS	0
Dietrich	st3	Assay13	A/A	Gen	0.28	73.07	-7.32	-0.80	1.43	1.07	0.05	0.08	20	0.992	2.95	24	POS	0
Dietrich	st3	Assay14_1	A/A	Gen	1.88	103.10	-6.83	-0.94	3.71	2.78	0.08	0.19	20	0.972	8.16	24	POS	0
Dietrich	st3	Assay09	A/A	Equol	6.69	103.30	-6.49	-0.95	1.81	1.93	0.03	0.08	20	0.992	3.78	24	POS	0
Dietrich	st3	Assay09	A/A	ELactone	25.99	89.55	-4.70	-0.64	3.17	1.07	0.07	0.08	19	0.985	3.05	23	WEAK	0
Dietrich	st3	Assay10_2	A/A	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st3	Assay12_2	A/A	EE2	2.74	50.00	.	.	4.79	0.00	.	.	19	0.657	15.52	23	POS	0
Dietrich	st3	Assay14_1	A/A	EE2	3.04	65.80	-11.06	-0.49	0.86	9.59	0.11	0.08	20	0.982	2.36	24	POS	0
Dietrich	st3	Assay15 (III)	A/A	EE2	6.68	121.70	-10.82	-0.62	2.76	4.17	0.08	0.09	20	0.982	6.73	24	POS	0
Dietrich	st3	Assay16 (III)	A/A	EE2	7.85	111.10	-10.82	-0.70	2.15	2.91	0.06	0.08	20	0.986	5.46	24	POS	0
Dietrich	st3	Assay10_1	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	23	POS	1
Dietrich	st3	Assay12_1	A/A	E2-TC	2.52	73.74	-8.69	-1.18	1.20	1.76	0.06	0.14	20	0.987	3.93	24	POS	0
Dietrich	st3	Assay13	A/A	E2-TC	1.91	73.15	-8.73	-1.21	0.85	1.25	0.04	0.10	20	0.993	2.80	24	POS	0
Dietrich	st3	Assay14_1	A/A	E2-TC	0.00	90.80	-9.44	-0.53	2.43	9.53	0.11	0.12	20	0.962	6.48	24	POS	0
Dietrich	st3	Assay16	A/A	E2	.	.	.	.	.	.	.	.	.	.	.	.	POS	0
Dietrich	st3	Assay10_1	A/A	DHT	12.54	50.00	-9.13	-1.18	4.73	0.02	2.91	0.75	20	0.760	8.20	24	POS	1
Dietrich	st3	Assay12_1	A/A	DHT	9.63	85.91	-5.80	-0.77	2.08	1.32	0.05	0.09	20	0.989	3.70	24	POS	0
Dietrich	st3	Assay13	A/A	DHT	11.42	85.06	-5.79	-0.83	1.77	1.16	0.05	0.09	20	0.990	3.36	24	POS	0
Dietrich	st3	Assay14_1	A/A	DHT	14.38	98.96	-5.74	-1.22	4.08	2.78	0.10	0.39	19	0.955	8.81	23	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Dietrich	st3	Assay10_2	A/A	Dex	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Dietrich	st3	Assay12_2	A/A	Dex	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay14_2	A/A	Dex	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Dietrich	st3	Assay15 (III)	A/A	Dex	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay10_1	A/A	DES	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Dietrich	st3	Assay12_1	A/A	DES	2.12	84.09	-8.31	-0.97	6.01	3.39	0.14	0.32	19	0.922	10.75	23	POS	0
Dietrich	st3	Assay13	A/A	DES	2.08	86.72	-8.32	-0.99	5.52	3.24	0.12	0.29	19	0.934	10.26	23	POS	0
Dietrich	st3	Assay14_1	A/A	DES	-0.78	87.09	-8.42	-0.75	7.63	3.84	0.15	0.24	20	0.915	11.48	24	POS	0
Dietrich	st3	Assay10_2	A/A	DDT	.	.	.	.	.	.	.	.	.	.	.	23	POS	1
Dietrich	st3	Assay12_2	A/A	DDT	13.97	55.74	-6.47	-0.53	62.19	6.32	1.35	0.99	20	0.307	18.26	24	POS	1
Dietrich	st3	Assay14_1	A/A	DDT	23.39	110.90	-5.18	-0.73	12.02	3.70	0.21	0.27	20	0.892	11.85	24	POS	0
Dietrich	st3	Assay15 (III)	A/A	DDT	28.88	124.50	-5.25	-0.99	7.33	2.98	0.17	0.30	20	0.939	10.36	24	POS	0
Dietrich	st3	Assay16 (III)	A/A	DDT	25.54	116.50	-5.27	-0.84	6.55	2.44	0.14	0.20	20	0.955	8.11	24	POS	0
Dietrich	st3	Assay09	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay09	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay10_1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay11	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay12_1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay13	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay14_1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay15	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay10_1	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay11	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay12_1	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay13	A/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay09	A/A	ButylPar	-2.E+12	106.90	-4.39	-0.17	2.E+12	8.06	0.14	0.04	20	0.927	9.06	24	POS	0
Dietrich	st3	Assay09	A/A	BPA	-9.72	109.70	-5.92	-0.28	12.22	7.55	0.11	0.07	20	0.976	5.88	24	POS	0
Dietrich	st3	Assay10_1	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Dietrich	st3	Assay11	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Dietrich	st3	Assay12_1	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay13	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay10_1	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Dietrich	st3	Assay12_1	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Dietrich	st3	Assay13	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Dietrich	st3	Assay14_1	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code A	A/A	Zear	3.03	97.25	-7.57	-1.09	3.37	5.16	0.11	0.27	20	0.942	10.99	24	POS	0	
Freyberger	st3	Code A1	A/A	Zear	7.14	63.79	.	.	2.14	2.99	.	.	20	0.939	7.36	24	POS	0	
Freyberger	st3	Code AB	A/A	Zear	18.83	99.01	-7.79	-1.72	6.17	9.57	0.34	2.63	20	0.757	21.38	24	POS	0	
Freyberger	st3	Code B	A/A	Tamox	4.59	97.80	-7.86	-1.29	0.95	1.56	0.03	0.15	20	0.994	3.23	24	POS	0	
Freyberger	st3	Code B2	A/A	Tamox	1.61	83.10	-8.06	-1.10	1.25	2.26	0.05	0.16	20	0.987	4.19	24	POS	0	
Freyberger	st3	Code A	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code A1	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code AB	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code B	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code B2	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code A	A/A	NE-TC	5.26	108.30	-6.13	-0.96	0.78	0.72	0.02	0.04	20	0.998	1.97	24	POS	0	
Freyberger	st3	Code A1	A/A	NE-TC	7.71	97.44	-6.36	-1.01	1.99	1.95	0.06	0.13	20	0.986	5.29	24	POS	0	
Freyberger	st3	Code AB	A/A	NE-TC	7.39	88.29	-6.62	-0.94	2.02	2.06	0.07	0.13	20	0.981	5.35	24	POS	0	
Freyberger	st3	Code B	A/A	Kepone	8.93	91.52	-5.27	-0.99	3.51	2.10	0.08	0.19	20	0.968	6.78	24	POS	0	
Freyberger	st3	Code B2	A/A	Kepone	8.43	100.90	-5.23	-0.99	1.91	1.17	0.04	0.09	20	0.992	3.77	24	POS	0	
Freyberger	st3	Code A	A/A	Heptylphenol	-4.E+08	95.99	-3.56	-0.53	2.E+12	1.58	0.04	0.05	20	0.981	4.45	24	WEAK	0	
Freyberger	st3	Code A1	A/A	Heptylphenol	-8.E+08	88.26	-3.29	-1.07	6.E+12	3.80	0.15	0.60	20	0.799	14.15	24	WEAK	0	
Freyberger	st3	Code AB	A/A	Heptylphenol	-5.E+07	89.87	-3.41	-0.79	3.E+12	3.22	0.09	0.20	20	0.920	8.81	24	WEAK	0	
Freyberger	st3	Code B	A/A	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	WEAK	0	
Freyberger	st3	Code B2	A/A	ELactone	26.43	102.80	-4.20	-0.83	3.55	1.15	0.07	0.11	20	0.984	3.91	24	WEAK	0	
Freyberger	st3	Code AB	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Freyberger	st3	Code B	A/A	E2-TC	5.13	92.79	-9.03	-1.47	2.09	8.24	0.06	0.85	20	0.942	7.98	24	POS	0	
Freyberger	st3	Code B2	A/A	E2-TC	.	.	.	.	.	.	.	.	.	.	.	24	POS	0	
Freyberger	st3	Code A	A/A	DHT	3.45	96.43	-6.23	-1.02	1.61	1.49	0.04	0.11	20	0.992	4.15	24	POS	0	
Freyberger	st3	Code A1	A/A	DHT	5.21	106.50	-6.29	-0.75	1.15	1.11	0.03	0.04	20	0.997	2.66	24	POS	0	
Freyberger	st3	Code AB	A/A	DHT	6.33	95.24	-6.31	-0.95	1.16	1.11	0.03	0.07	20	0.995	2.99	24	POS	0	
Freyberger	st3	Code A	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code A1	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Freyberger	st3	Code A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Freyberger	st3	Code A1	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Freyberger	st3	Code AB	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st3	Code B	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	Code B2	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	Code B	A/A	BPA	5.67	90.43	-6.12	-0.91	2.67	2.24	0.07	0.16	20	0.977	6.19	24	POS	0
Freyberger	st3	Code B2	A/A	BPA	5.68	101.20	-6.00	-0.99	1.22	1.03	0.03	0.08	20	0.996	2.94	24	POS	0
Freyberger	st3	Code A	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code A1	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code AB	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code A	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code A1	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code AB	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91021	A/A	Zear	1.40	99.95	-7.94	-1.06	1.08	2.05	0.03	0.11	20	0.993	3.61	24	POS	0
JapanCERI	st3	91105	A/A	Zear	2.52	92.92	-5.88	-1.33	12.48	9.15	0.27	1.43	20	0.692	29.63	24	POS	0
JapanCERI	st3	91109	A/A	Zear	1.90	102.60	-5.93	-1.06	1.55	1.23	0.03	0.11	20	0.994	3.66	24	POS	0
JapanCERI	st3	91116	A/A	Zear	1.72	109.30	-5.84	-0.95	1.36	1.04	0.03	0.07	20	0.997	3.04	24	POS	0
JapanCERI	st3	91021	A/A	Tamox	3.22	103.30	-8.37	-1.09	1.30	3.46	0.05	0.13	20	0.987	4.77	24	POS	0
JapanCERI	st3	91105	A/A	Tamox	-0.90	111.90	-6.29	-0.94	1.59	1.54	0.04	0.07	20	0.994	4.11	24	POS	0
JapanCERI	st3	91116	A/A	Tamox	2.04	110.50	-6.18	-0.99	1.13	1.06	0.03	0.06	20	0.997	2.91	24	POS	0
JapanCERI	st3	91021	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91105	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91109	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91111	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91105	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91109	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91111	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91116	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91119	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91105	A/A	NE-TC	1.53	102.70	-6.65	-0.92	1.68	1.78	0.05	0.09	20	0.992	4.48	24	POS	0
JapanCERI	st3	91109	A/A	NE-TC	3.65	109.80	-6.86	-0.82	1.16	1.46	0.03	0.06	20	0.996	3.14	24	POS	0
JapanCERI	st3	91111	A/A	NE-TC	1.47	98.70	-6.87	-0.99	1.29	1.47	0.04	0.09	20	0.994	3.62	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st3	91021	A/A	Kepone	8.43	100.30	-5.72	-1.21	1.51	1.08	0.04	0.13	20	0.994	3.48	24	POS	0
JapanCERI	st3	91116	A/A	Kepone	10.81	107.90	-5.59	-1.21	3.01	2.11	0.07	0.21	20	0.979	6.86	24	POS	0
JapanCERI	st3	91021	A/A	Heptylphenol	-3.E+08	100.00	-3.42	-0.63	4.E+12	0.67	0.02	0.03	20	0.994	2.47	24	WEAK	0
JapanCERI	st3	91116	A/A	Heptylphenol	-2.E+12	110.40	-3.33	-0.62	1.E+12	1.33	0.03	0.06	20	0.980	4.84	24	WEAK	0
JapanCERI	st3	91119	A/A	Heptylphenol	-3.E+08	107.70	-3.37	-0.62	1.E+14	1.13	0.20	0.18	20	0.988	3.78	24	WEAK	0
JapanCERI	st3	91105	A/A	ELactone	12.57	108.40	-4.36	-0.57	11.62	3.01	0.14	0.15	20	0.945	8.42	24	WEAK	0
JapanCERI	st3	91109	A/A	ELactone	22.57	105.20	-4.50	-0.80	2.19	0.86	0.05	0.07	20	0.994	2.77	24	WEAK	0
JapanCERI	st3	91111	A/A	ELactone	24.81	101.80	-4.65	-0.96	2.16	1.01	0.05	0.12	20	0.990	3.37	24	WEAK	0
JapanCERI	st3	91109	A/A	E2-TC	-2.63	106.30	-5.96	-1.06	4.22	3.40	0.08	0.27	20	0.965	10.04	24	POS	0
JapanCERI	st3	91111	A/A	E2-TC	1.11	98.84	-6.14	-1.11	0.92	0.83	0.02	0.07	20	0.998	2.38	24	POS	0
JapanCERI	st3	91021	A/A	DHT	3.19	104.20	-6.43	-0.89	1.19	1.18	0.03	0.06	20	0.996	3.05	24	POS	0
JapanCERI	st3	91116	A/A	DHT	6.10	110.10	-6.32	-0.96	2.00	1.99	0.05	0.10	20	0.989	5.28	24	POS	0
JapanCERI	st3	91021	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91116	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91021	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91105	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91109	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91111	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91116	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91119	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91021	A/A	BPA	4.85	103.80	-6.28	-1.06	4.13	4.00	0.11	0.26	20	0.950	11.10	24	POS	0
JapanCERI	st3	91116	A/A	BPA	5.67	112.30	-6.12	-0.83	2.10	1.93	0.05	0.09	20	0.990	4.98	24	POS	0
JapanCERI	st3	91119	A/A	BPA	5.78	105.90	-6.29	-1.02	1.22	1.19	0.03	0.07	20	0.996	3.24	24	POS	0
Lovelace	st3	19Jun09EtOH	A/A	Zear	1.28	66.30	-8.98	-0.48	2.34	3.36	0.14	0.08	20	0.973	4.40	24	POS	1
Lovelace	st3	30Jun09EtOH	A/A	Zear	0.69	103.20	-7.74	-0.70	2.09	2.42	0.06	0.08	20	0.989	5.00	24	POS	0
Lovelace	st3	30Jun09EtOH	A/A	Tamox	1.75	100.60	-7.65	-0.82	1.73	1.86	0.05	0.08	20	0.991	4.43	24	POS	0
Lovelace	st3	19Jun09EtOH	A/A	Progesterone	20.59	54.04	-8.57	-0.97	4.65	4.89	0.70	0.80	20	0.621	12.58	24	NEG	1
Lovelace	st3	30Jun09EtOH	A/A	Progesterone	30.62	72.86	-6.45	-0.77	4.20	2.54	0.20	0.30	20	0.867	7.38	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st3	19Jun09EtOH	A/A	NE-TC	1.00	53.53	-7.74	-0.63	6.41	2.22	0.45	0.21	20	0.912	6.40	24	POS	1
Lovelace	st3	30Jun09EtOH	A/A	NE-TC	2.08	101.70	-6.30	-0.76	2.05	1.10	0.04	0.06	20	0.994	3.27	24	POS	0
Lovelace	st3	19Jun09EtOH	A/A	Kepone	5.65	57.42	-7.29	-0.80	4.69	2.56	0.31	0.28	20	0.895	7.77	24	POS	1
Lovelace	st3	30Jun09EtOH	A/A	Kepone	-7.05	121.50	-6.45	-0.23	34.43	21.10	0.24	0.13	20	0.918	10.62	24	POS	0
Lovelace	st3	19Jun09EtOH	A/A	Heptylphenol	10.61	55.43	-6.05	-2.08	4.34	1.92	0.17	1.33	20	0.884	7.39	24	WEAK	1
Lovelace	st3	30Jun09EtOH	A/A	Heptylphenol	32.55	108.40	-6.32	-0.36	7.52	9.50	0.30	0.14	20	0.912	8.48	24	WEAK	0
Lovelace	st3	19Jun09EtOH	A/A	E2-TC	-3.23	.	.	-0.33	4.06	.	.	0.08	20	0.873	6.26	24	POS	1
Lovelace	st3	30Jun09EtOH	A/A	E2-TC	-1.59	67.70	-9.89	-0.50	2.46	7.53	0.17	0.13	20	0.949	5.97	24	POS	0
Lovelace	st3	30Jun09EtOH	A/A	DHT	5.29	108.60	-7.31	-0.37	5.95	6.59	0.12	0.08	20	0.969	6.85	24	POS	0
Lovelace	st3	19Jun09EtOH	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Lovelace	st3	30Jun09EtOH	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	30Jun09EtOH	A/A	BPA	8.97	106.10	-6.43	-0.49	2.00	2.30	0.05	0.04	20	0.993	3.49	24	POS	0
Missouri	st3	8101	A/A	Zear	-0.40	96.05	-7.93	-0.92	1.22	2.17	0.04	0.09	17	0.993	3.57	21	POS	0
Missouri	st3	8102	A/A	Zear	1.14	89.92	-8.06	-1.02	0.84	1.66	0.03	0.09	20	0.995	2.80	24	POS	0
Missouri	st3	8107	A/A	Zear	0.37	101.60	-7.70	-1.02	0.55	0.77	0.01	0.04	17	0.999	1.52	21	POS	0
Missouri	st3	8101	A/A	Tamox	1.77	93.90	-8.52	-1.23	1.19	1.50	0.04	0.09	17	0.995	3.38	21	POS	0
Missouri	st3	8102	A/A	Tamox	2.43	85.01	-8.57	-1.08	1.06	1.34	0.04	0.08	17	0.995	2.90	21	POS	0
Missouri	st3	8107	A/A	Tamox	-0.71	95.68	-8.21	-1.59	1.82	2.03	0.05	0.34	16	0.990	4.89	20	POS	0
Missouri	st3	8003	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8004	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8005	A/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0
Missouri	st3	8003	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8004	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0
Missouri	st3	8005	A/A	OTES	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	8101	A/A	NE-TC	0.51	94.86	-6.48	-0.84	3.08	2.20	0.06	0.11	17	0.984	5.52	21	POS	0
Missouri	st3	8102	A/A	NE-TC	0.45	96.43	-6.52	-0.81	1.10	0.80	0.02	0.04	17	0.998	1.96	21	POS	0
Missouri	st3	8107	A/A	NE-TC	6.08	97.26	-6.23	-1.02	2.01	1.43	0.04	0.11	17	0.992	3.93	21	POS	0
Missouri	st3	8003	A/A	Kepone	15.60	112.30	-4.96	-1.02	3.20	1.87	0.07	0.16	20	0.981	6.12	24	POS	0
Missouri	st3	8004	A/A	Kepone	12.81	107.70	-5.26	-1.14	2.75	1.81	0.06	0.15	20	0.983	5.98	24	POS	0
Missouri	st3	8003	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	22	WEAK	0
Missouri	st3	8004	A/A	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	22	WEAK	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st3	8003	A/A	ELactone	1.11	109.60	-3.59	-0.72	30.69	2.27	0.12	0.26	20	0.941	7.72	24	WEAK	0
Missouri	st3	8004	A/A	ELactone	23.52	104.30	-4.01	-0.92	5.26	1.57	0.08	0.17	19	0.970	5.55	23	WEAK	0
Missouri	st3	8101	A/A	E2-TC	-0.06	92.48	-9.08	-1.33	0.29	1.16	0.01	0.08	17	0.999	0.99	21	POS	0
Missouri	st3	8102	A/A	E2-TC	0.41	93.51	-9.10	-1.19	0.47	2.18	0.02	0.10	17	0.998	1.58	21	POS	0
Missouri	st3	8107	A/A	E2-TC	0.02	93.44	-9.06	-1.23	0.69	2.65	0.02	0.14	17	0.996	2.30	21	POS	0
Missouri	st3	8101	A/A	DHT	4.19	90.16	-5.91	-0.91	1.19	0.86	0.03	0.07	19	0.996	2.51	23	POS	0
Missouri	st3	8102	A/A	DHT	4.46	82.75	-6.04	-0.90	1.71	1.28	0.05	0.10	20	0.990	3.69	24	POS	0
Missouri	st3	8107	A/A	DHT	7.73	95.39	-5.62	-1.12	1.39	0.95	0.03	0.09	20	0.995	3.06	24	POS	0
Missouri	st3	8101	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8102	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8107	A/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8003	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8004	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Missouri	st3	8005	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8101	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8102	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st3	8107	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8101	A/A	BPA	4.67	94.25	-5.91	-0.80	1.41	1.04	0.03	0.06	20	0.995	2.85	24	POS	0
Missouri	st3	8102	A/A	BPA	3.66	86.15	-6.07	-0.66	2.37	1.70	0.06	0.08	18	0.988	4.15	22	POS	0
Missouri	st3	8107	A/A	BPA	11.93	99.23	-5.56	-1.18	2.47	1.70	0.06	0.17	20	0.983	5.56	24	POS	0
Missouri	st3	8003	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8004	A/A	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8003	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st3	8004	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st3	8005	A/A	Atr	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Ceetox	st4	20090911B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090914B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090917B	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090914	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911A	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090917A	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911B	A/A	Nethdrone-4	4.12	89.94	-6.07	-1.68	2.00	1.75	0.05	0.65	20	0.985	5.41	24	POS	0
Ceetox	st4	20090914B	A/A	Nethdrone-4	6.02	102.10	-5.88	-0.91	2.40	1.87	0.06	0.12	20	0.986	5.32	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Ceetox	st4	20090917B	A/A	Nethdrone-4	8.14	89.56	-5.96	-0.95	2.01	1.55	0.05	0.13	20	0.987	4.50	24	POS	0
Ceetox	st4	20090914	A/A	Nethdrone-3	4.10	101.90	-5.86	-0.89	1.90	1.44	0.04	0.09	20	0.992	4.11	24	POS	0
Ceetox	st4	20090911A	A/A	Nethdrone-3	3.98	99.21	-6.00	-0.88	2.17	1.76	0.05	0.11	20	0.988	4.85	24	POS	0
Ceetox	st4	20090917A	A/A	Nethdrone-3	11.50	83.12	-6.11	-1.95	1.76	1.63	0.07	1.21	20	0.982	4.98	24	POS	0
Ceetox	st4	20090914	A/A	Nethdrone-2	8.40	95.23	-6.04	-1.43	1.88	1.67	0.04	0.34	20	0.987	5.03	24	POS	0
Ceetox	st4	20090911A	A/A	Nethdrone-2	2.58	95.84	-6.02	-1.25	2.18	1.81	0.05	0.25	20	0.986	5.48	24	POS	0
Ceetox	st4	20090917A	A/A	Nethdrone-2	9.46	87.95	-6.05	-1.80	1.86	1.64	0.04	0.87	20	0.984	5.07	24	POS	0
Ceetox	st4	20090914	A/A	Nethdrone-1	7.50	103.20	-5.94	-1.16	1.66	1.38	0.04	0.15	20	0.992	4.12	24	POS	0
Ceetox	st4	20090911A	A/A	Nethdrone-1	4.53	103.50	-5.92	-1.28	2.45	1.98	0.05	0.28	20	0.985	6.09	24	POS	0
Ceetox	st4	20090917A	A/A	Nethdrone-1	9.48	95.39	.	.	2.26	2.08	.	.	20	0.979	6.43	24	POS	0
Ceetox	st4	20090911A	A/A	HPTE-2	-1.78	90.02	-6.67	-1.43	1.62	1.63	0.05	0.16	20	0.990	4.72	24	POS	0
Ceetox	st4	20090914B	A/A	HPTE-2	0.64	101.50	-6.59	-1.25	1.37	1.38	0.04	0.10	20	0.994	3.91	24	POS	0
Ceetox	st4	20090917B	A/A	HPTE-2	2.06	86.67	-6.69	-1.22	1.30	1.32	0.04	0.11	20	0.992	3.70	24	POS	0
Ceetox	st4	20090914	A/A	HPTE-1	4.74	99.21	-6.54	-1.08	1.45	1.47	0.04	0.10	20	0.993	4.02	24	POS	0
Ceetox	st4	20090911A	A/A	HPTE-1	1.08	102.00	-6.65	-1.02	1.69	1.77	0.05	0.10	20	0.991	4.65	24	POS	0
Ceetox	st4	20090917A	A/A	HPTE-1	4.94	95.50	-6.68	-1.14	1.43	1.48	0.04	0.12	20	0.992	4.05	24	POS	0
Ceetox	st4	20090911B	A/A	Gen-2	2.90	83.78	-6.64	-1.32	1.95	1.95	0.07	0.18	20	0.981	5.59	24	POS	0
Ceetox	st4	20090914B	A/A	Gen-2	-0.14	94.51	-6.59	-0.91	2.01	2.03	0.06	0.11	20	0.987	5.24	24	POS	0
Ceetox	st4	20090917B	A/A	Gen-2	12.42	80.96	-6.69	-1.38	1.86	1.87	0.07	0.24	20	0.976	5.39	24	POS	0
Ceetox	st4	20090914	A/A	Gen-1	-2.70	100.40	-6.62	-0.87	1.79	1.85	0.05	0.08	20	0.991	4.64	24	POS	0
Ceetox	st4	20090911A	A/A	Gen-1	2.88	83.41	-6.66	-1.21	2.04	2.05	0.07	0.18	20	0.980	5.78	24	POS	0
Ceetox	st4	20090917A	A/A	Gen-1	-0.69	83.86	-6.60	-1.14	1.93	1.91	0.06	0.15	20	0.984	5.36	24	POS	0
Ceetox	st4	20090914	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911A	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090917A	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090914	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911A	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090917A	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st4	20090914A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st4	20090917A	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st4	20090914	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st4	20090911A	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (EZ/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Ceetox	st4	20090917A	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090914	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090911A	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090917A	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st4	20090914	A/A	BPA-2	41.93	98.17	.	.	7.69	7.38	.	.	20	0.622	22.45	24	POS	1	
Ceetox	st4	20090911A	A/A	BPA-2	3.66	94.59	-5.78	-0.92	2.94	2.04	0.07	0.14	20	0.980	6.13	24	POS	0	
Ceetox	st4	20090917A	A/A	BPA-2	5.54	74.36	-5.87	-0.98	8.57	5.70	0.28	0.56	20	0.764	17.88	24	POS	1	
Ceetox	st4	20090914	A/A	BPA-1	7.95	106.80	-5.49	-0.90	4.64	3.06	0.10	0.19	20	0.960	9.29	24	POS	0	
Ceetox	st4	20090911A	A/A	BPA-1	3.13	106.90	-5.63	-0.91	4.09	2.81	0.09	0.17	20	0.970	8.45	24	POS	0	
Ceetox	st4	20090917A	A/A	BPA-1	6.74	97.48	-5.67	-0.96	3.61	2.47	0.08	0.18	20	0.969	7.60	24	POS	0	
Missouri	st4	1102	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0	
Missouri	st4	1104	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0	
Missouri	st4	1107	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0	
Missouri	st4	1109	A/A	OTES-2	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st4	1101	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	1106	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0	
Missouri	st4	1108	A/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	1102	A/A	Nethdrone-4	-2.43	100.50	-5.47	-1.37	4.64	1.88	0.07	0.21	20	0.974	7.13	24	POS	0	
Missouri	st4	1104	A/A	Nethdrone-4	1.28	93.47	-5.59	-1.59	5.04	2.15	0.09	0.34	20	0.960	8.21	24	POS	0	
Missouri	st4	1107	A/A	Nethdrone-4	4.49	98.16	-5.52	-1.57	2.53	1.07	0.05	0.16	20	0.990	4.10	24	POS	0	
Missouri	st4	1109	A/A	Nethdrone-4	-1.93	92.73	-5.73	-1.92	3.15	1.39	0.07	0.46	20	0.985	5.33	24	POS	0	
Missouri	st4	1102	A/A	Nethdrone-3	3.89	91.12	-5.64	-1.29	2.73	1.11	0.05	0.15	20	0.988	4.15	24	POS	0	
Missouri	st4	1104	A/A	Nethdrone-3	-0.14	100.60	-5.38	-1.45	2.95	1.21	0.04	0.15	20	0.988	4.61	24	POS	0	
Missouri	st4	1107	A/A	Nethdrone-3	2.02	97.55	-5.37	-1.49	3.21	1.33	0.05	0.19	20	0.984	5.06	24	POS	0	
Missouri	st4	1109	A/A	Nethdrone-3	-0.47	86.33	-5.74	-1.46	5.02	2.12	0.09	0.36	20	0.957	8.03	24	POS	0	
Missouri	st4	1101	A/A	Nethdrone-2	-5.59	99.82	-5.34	-1.53	6.57	2.71	0.10	0.40	20	0.946	10.34	24	POS	0	
Missouri	st4	1106	A/A	Nethdrone-2	0.04	98.99	-5.33	-1.57	3.57	1.49	0.06	0.23	20	0.981	5.70	24	POS	0	
Missouri	st4	1108	A/A	Nethdrone-2	-7.49	110.50	-5.49	-1.10	6.41	2.37	0.07	0.19	20	0.969	8.71	24	POS	0	
Missouri	st4	1101	A/A	Nethdrone-1	-4.91	89.42	-5.55	-0.94	7.15	2.22	0.09	0.20	20	0.955	7.96	24	POS	0	
Missouri	st4	1103	A/A	Nethdrone-1	-1.74	81.26	-5.76	-1.37	2.48	1.03	0.04	0.16	20	0.989	3.87	24	POS	0	
Missouri	st4	1106	A/A	Nethdrone-1	1.97	95.17	-5.51	-1.77	5.94	2.57	0.12	0.44	20	0.945	9.88	24	POS	0	

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st4	1108	A/A	Nethdrone-1	-4.53	120.70	-5.44	-1.61	4.17	1.78	0.06	0.20	20	0.985	6.81	24	POS	0
Missouri	st4	1102	A/A	HPTE-2	-4.49	102.60	-5.32	-0.51	20.33	8.37	0.27	0.25	20	0.820	19.49	24	POS	0
Missouri	st4	1104	A/A	HPTE-2	2.63	99.20	-5.33	-1.65	2.06	1.43	0.05	0.22	20	0.989	4.89	24	POS	0
Missouri	st4	1107	A/A	HPTE-2	1.45	104.80	-5.26	-1.62	2.08	1.43	0.04	0.22	20	0.991	4.90	24	POS	0
Missouri	st4	1109	A/A	HPTE-2	-5.86	93.09	-5.48	-1.55	5.08	3.52	0.12	0.41	20	0.942	11.98	24	POS	0
Missouri	st4	1101	A/A	HPTE-1	0.06	84.83	.	.	3.20	2.09	.	.	20	0.968	7.34	24	POS	0
Missouri	st4	1103	A/A	HPTE-1	-3.16	78.53	-5.19	-1.41	2.60	1.41	0.06	0.38	20	0.983	4.95	24	POS	0
Missouri	st4	1106	A/A	HPTE-1	-7.11	97.15	-5.04	-1.03	5.24	2.49	0.07	0.24	20	0.967	8.44	24	POS	0
Missouri	st4	1108	A/A	HPTE-1	-3.67	116.30	-4.91	-1.84	3.48	1.83	0.05	0.89	20	0.986	6.65	24	POS	0
Missouri	st4	1102	A/A	Gen-2	-2.15	92.20	-5.43	-1.52	8.99	3.74	0.15	0.55	20	0.885	14.26	24	POS	0
Missouri	st4	1104	A/A	Gen-2	-1.97	91.48	-5.49	-1.94	4.03	1.76	0.09	0.36	20	0.974	6.80	24	POS	0
Missouri	st4	1107	A/A	Gen-2	-0.55	101.10	-5.53	-1.76	1.95	0.84	0.04	0.14	20	0.995	3.24	24	POS	0
Missouri	st4	1109	A/A	Gen-2	-4.01	89.32	.	.	3.80	1.71	.	.	20	0.977	6.61	24	POS	0
Missouri	st4	1101	A/A	Gen-1	-6.89	89.49	-5.59	-1.85	2.81	1.23	0.05	0.22	20	0.988	4.71	24	POS	0
Missouri	st4	1106	A/A	Gen-1	-1.63	98.14	-5.61	-1.80	3.21	1.40	0.06	0.27	20	0.986	5.37	24	POS	0
Missouri	st4	1108	A/A	Gen-1	-5.80	118.00	-5.94	-0.99	4.24	2.12	0.06	0.16	20	0.984	7.04	24	POS	0
Missouri	st4	1102	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1104	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1107	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1109	A/A	Dex-2	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	1101	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	1103	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1106	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1108	A/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	1101	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	9	NEG	0
Missouri	st4	1102	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st4	1103	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st4	1104	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	19	NEG	0
Missouri	st4	1106	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	1107	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	19	NEG	0
Missouri	st4	1108	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	1109	A/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	1102	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1104	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1107	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Missouri	st4	1109	A/A	Cort-2	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0	
Missouri	st4	1101	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0	
Missouri	st4	1103	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	1106	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	1108	A/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0	
Missouri	st4	1102	A/A	BPA-2	-10.32	99.74	-5.97	-0.41	9.29	5.21	0.13	0.10	20	0.960	8.49	24	POS	0	
Missouri	st4	1104	A/A	BPA-2	-6.23	107.70	-5.81	-0.42	3.93	2.34	0.06	0.04	20	0.992	3.87	24	POS	0	
Missouri	st4	1107	A/A	BPA-2	-3.30	103.00	-5.77	-0.44	4.00	2.29	0.06	0.05	20	0.990	4.12	24	POS	0	
Missouri	st4	1109	A/A	BPA-2	-3.23	77.48	-6.68	-0.54	5.14	4.05	0.16	0.13	20	0.946	8.10	24	POS	0	
Missouri	st4	1101	A/A	BPA-1	-8.45	94.19	-4.73	-1.21	3.21	1.28	0.04	0.14	20	0.988	4.76	24	POS	0	
Missouri	st4	1106	A/A	BPA-1	0.55	100.70	-4.67	-1.20	2.92	1.18	0.04	0.14	20	0.990	4.36	24	POS	0	
Missouri	st4	1108	A/A	BPA-1	-5.06	110.10	-4.89	-0.73	12.75	4.97	0.16	0.25	20	0.904	15.33	24	POS	0	
Data below were not used for the independent standardized data analysis conducted by Battelle, Cincinnati, OH (Appendix F)																			
Lovelace	st1	13-Dec-08	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Lovelace	st12	13-Aug-09EtoH-Buffer	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Ceetox	st2	20090213_b	A/U	Gen	5.48	102.70	-7.13	-1.89	1.89	1.96	0.05	0.63	19	0.988	5.52	23	POS	0	
Ceetox	st2	20090213TEST	A/U	Gen	-2.72	103.40	-7.17	-1.89	2.06	2.14	0.06	0.63	19	0.988	6.02	23	POS	0	
Ceetox	st2	20090213TEST_2	A/U	Gen	5.48	102.70	-7.13	-1.89	1.89	1.96	0.05	0.63	19	0.988	5.52	23	POS	0	
Ceetox	st2	20090213_b	A/U	EE2_2	2.27	103.90	-8.59	-1.21	4.42	3.04	0.10	0.27	20	0.960	10.01	24	POS	0	
Ceetox	st2	20090213TEST	A/U	EE2_2	-6.22	104.70	-8.64	-1.21	4.83	3.32	0.09	0.27	20	0.960	10.92	24	POS	0	
Ceetox	st2	20090213TEST_2	A/U	EE2_2	2.27	103.90	-8.59	-1.21	4.42	3.04	0.10	0.27	20	0.960	10.01	24	POS	0	
Ceetox	st2	20090213_b	A/U	EE2	2.84	101.20	-8.62	-1.18	3.97	2.73	0.09	0.24	20	0.966	8.92	24	POS	0	
Ceetox	st2	20090213TEST	A/U	EE2	-5.60	101.70	-8.67	-1.18	4.33	2.98	0.09	0.24	20	0.966	9.73	24	POS	0	
Ceetox	st2	20090213TEST_2	A/U	EE2	2.84	101.20	-8.62	-1.18	3.97	2.73	0.09	0.24	20	0.966	8.92	24	POS	0	
Ceetox	st2	20090213b	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Ceetox	st2	20090213TEST4	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Ceetox	st2	20090213_b	A/U	Cort	.	134.60	.	0.11	.	118.50	.	0.20	20	0.338	18.18	24	NEG	0	
Ceetox	st2	20090213TEST	A/U	Cort	50.00	108.50	-10.37	3.77	.	.	.	.	.	.	.	24	NEG	0	
Ceetox	st2	20090213TEST_2	A/U	Cort	.	134.60	.	0.11	.	118.50	.	0.20	20	0.338	18.18	24	NEG	0	
Lovelace	st2	16April09EtOH	A/U	Hexestrol	16.59	103.20	-7.03	-1.21	3.22	3.02	0.09	0.33	20	0.960	8.71	24	POS	0	
Lovelace	st2	16April09EtOH	A/U	Gen	14.50	63.34	-7.57	-0.84	4.90	4.01	0.32	0.44	20	0.816	10.85	24	POS	1	
Lovelace	st2	16April09EtOH	A/U	EE2	10.97	100.20	-8.35	-0.83	1.82	2.96	0.07	0.11	20	0.982	5.46	24	POS	0	

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st2	16April09EtOH	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	16April09EtOH	A/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090426	A/U	Zear	2.60	.	-8.72	-0.25	8.41	.	1.05	0.48	20	0.778	18.49	24	POS	1
Ceetox	st3	20090426B	A/U	Zear	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st3	20090426B	A/U	TB (Solvent only)	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090426	A/U	Tamox	0.18	95.08	-6.77	-1.13	1.80	1.89	0.05	0.14	20	0.988	5.10	24	POS	0
Ceetox	st3	20090426	A/U	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090426	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090426	A/U	NE-TC	5.43	109.00	-6.14	-0.91	6.62	3.79	0.12	0.24	20	0.937	11.99	24	POS	1
Ceetox	st3	20090426	A/U	Kepone	13.84	90.23	-5.00	-3.47	13.20	8.09	0.32	231.10	20	0.610	28.78	24	POS	0
Ceetox	st3	20090426	A/U	Heptylphenol	2.21	88.81	.	.	491.00	3.72	.	.	20	0.823	14.40	24	WEAK	0
Ceetox	st3	20090426	A/U	ELactone	40.29	112.50	-3.80	-0.98	6.97	2.53	0.23	0.31	20	0.915	9.02	24	WEAK	1
Ceetox	st3	20090426	A/U	E2-TC	5.95	100.70	-6.79	-1.48	3.62	2.63	0.09	0.51	20	0.967	8.71	24	POS	0
Ceetox	st3	20090426	A/U	DHT	10.22	102.90	-5.72	-1.22	3.57	2.59	0.09	0.32	20	0.967	8.30	24	POS	0
Ceetox	st3	20090426	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090426B	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Ceetox	st3	20090426	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st3	20090426	A/U	BPA	5.98	106.60	-5.78	-1.01	2.20	1.65	0.05	0.13	20	0.990	4.95	24	POS	0
Ceetox	st3	20090426B	A/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay08	A/U	Zear	-0.07	103.10	-8.85	-0.49	3.05	4.04	0.08	0.07	20	0.983	5.64	24	POS	0
Dietrich	st3	Assay08	A/U	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay08	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay08	A/U	HPTE	3.88	95.77	-7.10	-1.15	1.64	1.45	0.04	0.15	20	0.991	4.21	24	POS	0
Dietrich	st3	Assay08	A/U	Equol	10.27	111.20	-6.72	-1.18	1.40	1.74	0.02	0.08	19	0.994	3.44	23	POS	0
Dietrich	st3	Assay08	A/U	ELactone	20.15	100.10	-4.86	-0.70	5.49	2.51	0.12	0.17	19	0.957	7.29	23	WEAK	0
Dietrich	st3	Assay08	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay08	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay08	A/U	ButylPar	-3.E+11	141.90	-4.36	-0.09	3.E+12	25.19	0.19	0.03	20	0.926	9.46	24	POS	0
Dietrich	st3	Assay08	A/U	BPA	0.94	135.70	-6.36	-0.27	5.59	10.49	0.08	0.04	20	0.990	4.04	24	POS	0
Freyberger	st3	Code A2	A/U	Zear	13.68	106.10	-7.62	-1.61	3.49	5.10	0.15	0.66	20	0.933	11.94	24	POS	0
Freyberger	st3	Code B1	A/U	Tamox	3.39	84.87	-7.98	-1.29	0.83	1.36	0.03	0.15	20	0.994	2.82	24	POS	0
Freyberger	st3	Code A2	A/U	Progesterone	50.00	113.00	-8.44	3.86	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Freyberger	st3	Code B1	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code A2	A/U	NE-TC	-26.61	206.70	-7.36	-0.13	80.39	471.20	0.31	0.25	20	0.852	14.53	24	POS	0
Freyberger	st3	Code B1	A/U	Kepone	7.17	79.38	-5.44	-0.99	3.07	1.83	0.09	0.19	20	0.968	5.93	24	POS	0
Freyberger	st3	Code A2	A/U	Heptylphenol	.	106.40	-3.37	-0.57	.	1.42	0.03	0.05	20	0.978	4.93	24	WEAK	0
Freyberger	st3	Code B1	A/U	ELactone	43.47	83.33	-4.85	-1.22	2.45	1.64	0.18	0.35	20	0.923	5.47	24	WEAK	0
Freyberger	st3	Code B1	A/U	E2-TC	3.85	80.49	-9.13	-1.47	1.83	7.20	0.09	0.85	20	0.942	6.97	24	POS	0
Freyberger	st3	Code A2	A/U	DHT	-1.58	117.10	-6.48	-0.30	17.66	23.79	0.26	0.16	20	0.875	14.74	24	POS	0
Freyberger	st3	Code A2	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code A2	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Freyberger	st3	Code B1	A/U	DBP	50.00	110.30	-6.99	3.33	0.12	1316.00	74.99	116.50	17	-2.681	46.01	21	NEG	0
Freyberger	st3	Code B1	A/U	BPA	4.33	78.43	-6.31	-0.91	2.34	1.96	0.08	0.16	20	0.977	5.41	24	POS	0
Freyberger	st3	Code A2	A/U	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Freyberger	st3	Code A2	A/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	13Mar09EtOH	A/U	Tamox	0.01	133.20	-7.41	-0.69	6.12	3.96	0.11	0.13	20	0.969	10.48	24	POS	0
Lovelace	st3	13Mar09EtOH	A/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	13Mar09EtOH	A/U	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	WEAK	0
Lovelace	st3	13Mar09EtOH	A/U	DHT	-44.46	151.60	-5.68	-0.36	111.40	8.55	0.20	0.18	20	0.892	16.63	24	POS	0
Lovelace	st3	13Mar09EtOH	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	13Mar09EtOH	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	13Mar09EtOH	A/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8108	A/U	Zear	-0.92	107.40	-7.66	-1.12	1.32	1.78	0.03	0.09	17	0.995	3.72	21	POS	0
Missouri	st3	8108	A/U	Tamox	-5.66	111.10	-8.14	-1.33	0.83	0.97	0.02	0.09	17	0.999	2.28	21	POS	0
Missouri	st3	8108	A/U	NE-TC	2.16	107.50	-6.19	-0.94	1.75	1.21	0.03	0.07	17	0.996	3.25	21	POS	0
Missouri	st3	8108	A/U	E2-TC	-2.66	102.80	-8.98	-1.12	0.53	2.06	0.01	0.08	17	0.998	1.76	21	POS	0
Missouri	st3	8108	A/U	DHT	4.44	109.20	-5.54	-1.09	1.35	0.92	0.03	0.07	20	0.997	2.96	24	POS	0
Missouri	st3	8108	A/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8108	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8108	A/U	BPA	6.66	107.60	-5.47	-0.94	2.28	1.58	0.05	0.10	19	0.990	4.65	23	POS	0
Missouri	st4	1111	A/U	OTES-1	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st4	1111	A/U	Nethdrone-2	4.88	104.40	-5.26	-1.64	8.26	3.48	0.12	0.63	20	0.906	13.32	24	POS	0
Missouri	st4	1111	A/U	Nethdrone-1	4.61	90.89	.	.	11.58	5.18	.	.	20	0.786	20.04	24	POS	0
Missouri	st4	1111	A/U	HPTE-1	1.60	86.71	-4.94	-1.25	9.75	4.36	0.15	0.79	20	0.851	15.74	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st4	1111	A/U	Gen-1	1.29	102.20	-6.30	-0.77	3.15	1.70	0.06	0.09	20	0.987	5.07	24	POS	0
Missouri	st4	1111	A/U	Dex-1	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st4	1111	A/U	DBP	.	.	.	.	.	.	.	.	.	.	.	19	NEG	0
Missouri	st4	1111	A/U	Cort-1	.	.	.	.	.	.	.	.	.	.	.	22	NEG	0
Missouri	st4	1111	A/U	BPA-1	4.21	98.89	-5.42	-0.67	11.48	6.22	0.22	0.29	20	0.849	17.11	24	POS	0
Ceetox	st1	20081124	U	E2	-0.09	81.73	-8.93	-1.06	2.62	3.72	0.07	0.20	23	0.958	7.47	27	POS	0
Dietrich	st1	Assay01	U	NE	15.80	205.40	-5.24	-1.25	11.91	6.39	0.09	0.27	20	0.958	16.87	24	POS	0
Dietrich	st1	Assay02	U	NE	-9.91	133.20	-5.52	-0.66	11.00	3.96	0.05	0.10	20	0.985	5.95	24	POS	0
Dietrich	st1	Assay01	U	E2	0.18	.	-10.40	-0.65	2.55	.	0.08	0.09	23	0.952	9.09	27	POS	0
Dietrich	st1	Assay02	U	E2	-0.19	130.50	-8.72	-0.70	2.48	4.94	0.04	0.07	23	0.985	6.07	27	POS	0
Lovelace	st1	3-Dec-08	U	NE	8.10	131.70	-5.54	-0.70	14.25	7.33	0.10	0.20	20	0.939	11.17	24	POS	0
Lovelace	st1	9-Dec-08	U	NE	-8.33	137.50	-5.70	-0.70	17.03	8.68	0.09	0.20	20	0.939	13.14	24	POS	0
Lovelace	st1	13-Dec-08	U	NE	17.29	106.70	-5.88	-1.29	4.03	3.19	0.06	0.25	20	0.964	7.64	24	POS	0
Lovelace	st1	27-Jan-09	U	NE	-4.77	114.60	-6.46	-0.65	8.13	9.21	0.07	0.16	20	0.952	9.35	24	POS	0
Lovelace	st1	3-Dec-08	U	E2	4.67	169.60	-8.58	-0.78	5.97	11.55	0.10	0.16	22	0.947	15.11	26	POS	0
Lovelace	st1	9-Dec-08	U	E2	0.74	178.30	-8.75	-0.94	8.68	17.37	0.14	0.27	23	0.883	25.69	27	POS	0
Lovelace	st1	16-Dec-08	U	E2	14.21	106.10	-9.15	-4.51	3.07	4.87	0.09	2.46	23	0.937	11.84	27	POS	1
Lovelace	st1	27-Jan-09	U	E2	2.33	132.60	-8.84	-0.83	5.71	11.59	0.10	0.21	23	0.911	15.87	27	POS	0
Missouri	st1	3005	U	E2	1.00	137.40	-9.41	-0.62	2.59	12.61	0.05	0.10	23	0.974	6.67	27	POS	1
Missouri	st1	3006	U	E2	-5.69	155.30	-9.52	-0.36	5.09	47.38	0.07	0.10	23	0.968	6.31	27	POS	0
Missouri	st1	3008	U	E2	-1.22	123.80	-9.47	-0.57	1.93	9.00	0.04	0.07	23	0.986	4.55	27	POS	1
Lovelace	st12	9-Jul-10	U	NE	9.17	186.90	-5.93	-0.88	3.12	3.63	0.04	0.06	20	0.994	5.48	24	POS	0
Lovelace	st12	19Aug10EtOH	U	NE	2.57	623.00	-5.24	-1.09	12.81	11.55	0.07	0.09	20	0.992	23.43	24	POS	0
Lovelace	st12	19Aug10EtOH Buffer	U	NE	0.31	77.20	-6.47	-1.11	1.51	1.36	0.03	0.09	20	0.993	2.79	24	POS	0
Lovelace	st12	9-Jul-10	U	E2	-2.92	175.90	-8.44	-0.63	5.13	10.85	0.08	0.10	23	0.970	11.51	27	POS	0
Lovelace	st12	09Oct09EtOH	U	E2	-2.03	72.75	-9.14	-0.68	5.00	7.22	0.16	0.22	23	0.890	10.35	27	POS	0
Lovelace	st12	14Oct09EtOH	U	E2	-2.75	119.40	-8.68	-0.59	2.82	5.28	0.05	0.07	23	0.985	5.49	27	POS	0
Lovelace	st12	19Aug10EtOH	U	E2	-4.96	746.90	-7.74	-0.95	10.19	16.82	0.08	0.07	23	0.992	28.81	27	POS	0
Lovelace	st12	25Sep09EtOH	U	E2	-3.19	106.60	-8.73	-0.55	3.75	6.38	0.06	0.09	23	0.974	6.42	27	POS	0
Ceetox	st2	20090128BAD	U	NE	4.69	72.81	-6.38	-1.34	3.58	3.16	0.08	0.32	20	0.944	7.45	24	POS	1
Ceetox	st2	20090213TEST4	U	NE	5.83	81.58	.	.	5.84	5.84	.	.	20	0.808	20.24	24	POS	0
Ceetox	st2	20090213TEST4_2	U	NE	16.43	82.81	.	.	5.40	5.40	.	.	20	0.804	18.71	24	POS	0
Ceetox	st2	20090128BAD	U	E2	0.87	79.71	-9.02	-1.17	1.25	1.82	0.03	0.11	23	0.989	3.72	27	POS	1

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Dietrich	st2	Assay15	U	E2	0.00	121.20	-8.66	-0.74	1.52	2.66	0.03	0.05	23	0.994	3.72	27	POS	0
Freyberger	st2	C	U	NE	2.84	83.13	-6.51	-0.95	1.48	1.44	0.02	0.07	20	0.994	2.52	24	POS	1
Freyberger	st2	C	U	E2	1.06	92.12	-10.12	-0.99	0.49	2.43	0.02	0.06	23	0.997	1.66	27	POS	1
Lovelace	st2	30Jan09DMSO	DMSO(U)	NPhenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	06Feb09EtOH	U	NE	-14.18	125.50	-5.49	-0.76	23.28	6.90	0.10	0.25	18	0.934	12.81	22	POS	0
Lovelace	st2	09Feb09EtOH	U	NE	29.32	116.40	-6.07	-2.03	10.13	10.36	0.22	1.35	12	0.798	22.50	16	POS	0
Lovelace	st2	10April09EtOH	U	NE	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	12Feb09EtOH	U	NE	2.68	.	-7.56	-0.31	8.85	.	0.16	0.16	20	0.851	12.66	24	POS	0
Lovelace	st2	13May09EtOH	U	NE	-162.90	156.80	-5.37	-0.30	558.40	44.66	0.15	0.35	20	0.865	18.83	24	POS	0
Lovelace	st2	14Feb09DMSO	DMSO(U)	NE	-6.39	147.40	-6.40	-0.71	5.64	7.94	0.05	0.11	20	0.977	8.41	24	POS	0
Lovelace	st2	16April09EtOH	U	NE	-37.29	149.20	-5.85	-0.35	87.47	45.71	0.16	0.29	20	0.869	16.90	24	POS	0
Lovelace	st2	19Feb09DMSO	DMSO(U)	NE	1.35	132.30	-6.36	-0.89	3.16	4.03	0.04	0.09	20	0.987	5.89	24	POS	0
Lovelace	st2	24April09EtOH	U	NE	0.26	138.00	-5.94	-0.72	4.48	3.67	0.04	0.07	20	0.990	5.00	24	POS	0
Lovelace	st2	28April09EtOH	U	NE	17.80	66.59	-6.23	-1.75	5.91	4.99	0.17	1.15	20	0.741	13.60	24	POS	0
Lovelace	st2	28May09EtOH	U	NE	7.97	93.02	-6.28	-1.17	4.23	4.11	0.07	0.25	20	0.950	8.50	24	POS	0
Lovelace	st2	14Feb09DMSO	DMSO(U)/DM SO(U)	Hexestrol	4.00	141.90	-6.50	-1.04	2.99	2.13	0.06	0.12	20	0.990	6.61	24	POS	0
Lovelace	st2	19Feb09DMSO	DMSO(U)/DM SO(U)	Hexestrol	4.44	141.40	-6.72	-0.75	2.25	1.86	0.05	0.06	20	0.994	4.74	24	POS	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	Hexestrol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	14Feb09DMSO	DMSO(U)/DM SO(U)	Gen	4.47	128.00	-6.29	-1.08	10.14	6.71	0.19	0.40	20	0.877	21.79	24	POS	0
Lovelace	st2	19Feb09DMSO	DMSO(U)/DM SO(U)	Gen	7.28	152.00	-6.60	-0.52	6.47	5.76	0.13	0.09	20	0.971	10.47	24	POS	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	Gen	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	Equol	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	14Feb09DMSO	DMSO(U)/DM SO(U)	EE2	3.50	131.30	-7.37	-1.22	6.97	7.02	0.16	0.39	20	0.912	19.79	24	POS	0
Lovelace	st2	19Feb09DMSO	DMSO(U)/DM SO(U)	EE2	6.86	143.80	-7.62	-1.12	6.77	7.78	0.17	0.46	20	0.920	19.70	24	POS	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	06Feb09EtOH	U	E2	-0.52	114.20	-8.18	-0.64	11.24	12.21	0.15	0.25	20	0.878	16.23	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st2	09Feb09EtOH	U	E2	-3.83	92.62	-8.38	-0.73	4.38	4.45	0.08	0.15	23	0.960	8.10	27	POS	0
Lovelace	st2	10April09EtOH	U	E2	12.44	1105.00	-7.25	-1.56	33.51	32.18	0.26	0.31	23	0.967	96.35	27	POS	0
Lovelace	st2	12Feb09EtOH	U	E2	-1.25	.	.	-0.75	5.19	.	.	0.42	22	0.750	10.33	26	POS	0
Lovelace	st2	13May09EtOH	U	E2	-0.73	128.40	-8.13	-0.76	2.75	3.24	0.05	0.08	23	0.988	5.79	27	POS	0
Lovelace	st2	14Feb09DMSO	DMSO(U)	E2	2.51	131.30	-8.74	-1.32	3.95	5.86	0.06	0.26	23	0.957	12.26	27	POS	0
Lovelace	st2	19Feb09DMSO	DMSO(U)	E2	1.20	131.20	-8.80	-1.16	2.31	3.75	0.04	0.13	23	0.985	7.05	27	POS	0
Lovelace	st2	21April09EtOH	U	E2	.	121.70	.	.	.	3.27	.	.	23	0.950	12.65	27	POS	0
Lovelace	st2	24April09EtOH	U	E2	-0.16	133.00	-8.17	-0.81	4.63	5.73	0.08	0.14	23	0.966	10.55	27	POS	0
Lovelace	st2	28April09EtOH	U	E2	1.02	90.47	-8.20	-1.06	6.23	5.96	0.12	0.42	23	0.876	15.21	27	POS	0
Lovelace	st2	28May09EtOH	U	E2	-2.84	105.40	-8.57	-0.63	3.66	5.26	0.06	0.10	23	0.973	6.87	27	POS	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	E2	0.00	.	-6.55	-50.87	71.43	.	#####	#####	23	0.357	175.00	27	POS	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	DDT	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	30Jan09DMSO	U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	30Jan09DMSO	DMSO(U)	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Ceetox	st3	20090426	U	NE	2.80	108.10	-5.30	-1.66	4.53	1.50	0.03	0.21	20	0.986	5.05	24	POS	1
Dietrich	st3	Assay07	U	NE	-4.08	109.20	-6.21	-0.61	6.13	4.63	0.04	0.09	20	0.983	5.00	24	POS	0
Dietrich	st3	Assay08	U	NE	-11.88	122.40	-6.37	-0.46	10.49	10.36	0.05	0.10	19	0.979	5.69	23	POS	0
Dietrich	st3	Assay07	U	E2	-4.89	101.80	-8.86	-0.56	5.05	8.86	0.09	0.13	23	0.948	8.96	27	POS	0
Freyberger	st3	CODE A2	U	NE	8.22	101.00	-6.12	-1.83	3.59	3.38	0.05	0.39	20	0.961	9.01	24	POS	0
Freyberger	st3	CODE B1	U	NE	5.84	93.03	-6.47	-3.43	2.41	2.64	0.03	1.76	20	0.973	7.32	24	POS	0
JapanCERI	st3	091104_00	U	NE	-2.70	119.40	-6.89	-0.67	3.62	7.93	0.04	0.10	20	0.980	5.75	24	POS	0
JapanCERI	st3	091026_02	U	E2	0.64	84.29	-8.73	-1.51	2.31	2.73	0.05	0.26	23	0.969	6.99	27	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
JapanCERI	st3	091104_00	U	E2	1.03	82.02	-8.62	-1.63	6.87	7.45	0.14	0.89	23	0.779	20.56	27	POS	0
Lovelace	st3	03May09DMSO	DMSO(U)	NE	12.39	143.50	-5.94	-1.28	7.02	6.66	0.09	0.31	20	0.940	14.83	24	POS	0
Lovelace	st3	03May09DMSO_2	DMSO(U)	NE	9.61	132.90	-6.20	-1.26	2.65	3.04	0.04	0.13	20	0.988	6.12	24	POS	0
Lovelace	st3	03May09DMSO_3	DMSO(U)	NE	-11.55	127.10	-6.21	-0.80	3.19	2.89	0.03	0.06	20	0.993	4.35	24	POS	0
Lovelace	st3	10Mar09EtOH	U	NE	15.67	120.50	.	.	6.78	4.80	.	.	20	0.906	16.61	24	POS	0
Lovelace	st3	13Mar09EtOH	U	NE	9.09	133.10	-5.44	-0.66	18.73	8.67	0.12	0.22	20	0.920	12.51	24	POS	0
Lovelace	st3	17Jun09EtOH	U	NE	-7.66	158.70	-6.08	-0.66	4.18	4.30	0.03	0.06	20	0.994	4.72	24	POS	0
Lovelace	st3	20Mar09EtOH	U	NE	3.87	53.00	.	.	7.09	6.37	.	.	20	0.616	19.84	24	POS	1
Lovelace	st3	23Jun09EtOH	U	NE	5.82	148.40	-5.96	-0.88	3.88	3.72	0.04	0.09	20	0.989	6.11	24	POS	0
Lovelace	st3	24Mar09EtOH	U	NE	3.68	75.67	-6.21	-1.41	11.10	8.59	0.20	0.97	20	0.689	21.82	24	POS	0
Lovelace	st3	25Jun09EtOH	U	NE	2.54	151.90	-5.98	-0.76	4.07	4.01	0.04	0.07	20	0.991	5.44	24	POS	0
Lovelace	st3	31Mar09EtOH	U	NE	-6.87	375.00	-5.65	-1.10	18.41	18.55	0.11	0.23	20	0.954	36.15	24	POS	0
Lovelace	st3	03May09DMSO	DMSO(U)	E2	-0.63	169.70	-8.37	-0.68	2.99	5.57	0.05	0.06	23	0.989	6.97	27	POS	0
Lovelace	st3	03May09DMSO_2	DMSO(U)	E2	1.44	144.40	-8.44	-0.74	5.29	8.99	0.09	0.15	23	0.951	12.88	27	POS	0
Lovelace	st3	03May09DMSO_3	DMSO(U)	E2	-5.40	118.00	-8.76	-0.75	6.48	11.44	0.11	0.21	23	0.901	16.13	27	POS	0
Lovelace	st3	10Mar09EtOH	U	E2	-24.32	143.70	-8.41	-0.30	44.47	62.64	0.21	0.26	23	0.835	19.34	27	POS	0
Lovelace	st3	17Jun09EtOH	U	E2	-2.86	152.80	-8.24	-0.84	2.29	3.16	0.04	0.07	23	0.993	5.67	27	POS	0
Lovelace	st3	20Mar09EtOH	U	E2	10.87	122.00	.	.	32.46	41.90	.	.	23	0.161	125.70	27	POS	1
Lovelace	st3	23Jun09EtOH	U	E2	0.04	129.60	-8.39	-0.90	4.39	6.06	0.07	0.17	23	0.959	11.39	27	POS	0
Lovelace	st3	24Mar09EtOH	U	E2	2.95	71.12	-8.80	-2.16	6.47	7.39	0.18	1.52	23	0.719	20.89	27	POS	0
Lovelace	st3	25Jun09EtOH	U	E2	-1.00	142.50	-8.34	-0.83	1.66	2.42	0.03	0.05	23	0.995	4.15	27	POS	0
Lovelace	st3	31Mar09EtOH	U	E2	2.72	300.60	-8.58	-1.34	12.49	21.26	0.14	0.37	23	0.912	40.46	27	POS	0
Lovelace	st3	03May09DMSO	DMSO(U)/DMSO(U)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	03May09DMSO_3	DMSO(U)/DMSO(U)	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	03May09DMSO	DMSO(U)/DMSO(U)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	03May09DMSO_2	DMSO(U)/DMSO(U)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st3	03May09DMSO_3	DMSO(U)/DMSO(U)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8001	U	NE	3.92	80.63	-6.24	-1.11	2.77	2.12	0.04	0.15	20	0.981	4.62	24	POS	0
Missouri	st3	8002	U	NE	1.49	76.31	-6.28	-1.02	1.47	1.00	0.02	0.07	20	0.995	2.11	24	POS	0
Missouri	st3	8108	U	NE	-8.01	123.10	-6.32	-0.54	8.21	8.19	0.05	0.10	20	0.978	6.27	24	POS	0
Missouri	st3	8202 DMSO	DMSO(U)	NE	1.23	81.45	-6.73	-0.92	0.79	0.93	0.01	0.04	20	0.998	1.46	24	POS	0
Missouri	st3	8001	U	E2	0.13	88.12	-9.09	-0.91	1.29	2.25	0.03	0.08	23	0.990	3.62	27	POS	0
Missouri	st3	8002	U	E2	-0.34	81.14	-9.13	-0.92	0.68	1.13	0.02	0.04	23	0.997	1.89	27	POS	0
Missouri	st3	8202 DMSO	DMSO(U)	E2	0.38	83.25	-9.14	-1.14	0.52	0.85	0.01	0.04	23	0.998	1.59	27	POS	0
Missouri	st3	8202	DMSO(U)/DMSO(U)	DBP	.	.	.	.	.	.	.	.	.	.	.	20	NEG	0
Missouri	st3	8202	DMSO(U)/DMSO(U)	BaA_DMSO	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1105	U	NE	11.59	108.40	-6.20	-0.86	5.31	5.38	0.07	0.18	20	0.954	8.43	24	POS	0
Missouri	st4	1111	U	NE	9.65	109.50	-6.18	-0.88	3.27	3.18	0.04	0.11	20	0.984	5.14	24	POS	0
Missouri	st4	1105	U	E2	-0.12	107.60	-8.78	-0.86	1.35	2.22	0.03	0.06	23	0.993	3.64	27	POS	0
Missouri	st4	1110	U	E2	2.82	85.17	-9.41	-1.67	2.08	3.84	0.05	0.30	23	0.960	7.36	27	POS	0
Cetox	st1	20081124	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st1	16-Dec-08	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Missouri	st1	3005	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Missouri	st1	3006	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st1	3008	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Lovelace	st12	09Oct09EtOH_Buff	U/A	EE2	4.00	125.40	-8.27	-0.84	4.82	4.85	0.12	0.18	20	0.957	12.09	24	POS	0
Lovelace	st12	14Oct09EtOH_Buff	U/A	EE2	-29.84	104.10	-8.36	-0.30	21.86	12.18	0.18	0.11	20	0.937	11.16	24	POS	0
Lovelace	st12	23Sep09EtOH_Buff	U/A	EE2	11.57	90.80	-8.47	-0.97	3.33	3.32	0.11	0.22	20	0.949	8.83	24	POS	0
Lovelace	st12	09Oct09EtOH_Buff	U/A	E2-TC	1.49	104.30	-8.73	-1.01	1.55	1.67	0.04	0.10	20	0.993	4.29	24	POS	0
Lovelace	st12	14Oct09EtOH_Buff	U/A	E2-TC	-2.E+11	.	.	-0.14	3.E+12	.	.	0.08	20	0.675	15.48	24	POS	0
Lovelace	st12	23Sep09EtOH_Buff	U/A	E2-TC	1.72	92.48	-8.96	-0.76	1.28	1.55	0.04	0.06	20	0.994	3.30	24	POS	0
Lovelace	st12	09Oct09EtOH_Buff	U/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st12	14Oct09EtOH_Buff	U/A	DBP-TC	-3.E+11	127.10	-4.42	-0.55	5.E+12	2.82	0.08	0.13	20	0.963	9.10	24	NEG	0
Lovelace	st12	23Sep09EtOH_Buff	U/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st12	09Oct09EtOH	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st12	14Oct09EtOH	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	25Sep09EtOH	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Dietrich	st2	Assay15	U/A	NPhenol	11.51	110.70	-6.16	-0.83	3.66	3.51	0.10	0.16	20	0.965	8.89	24	POS	0
Dietrich	st2	Assay15	U/A	Hexestrol	1.80	89.02	-8.43	-0.66	6.59	3.15	0.12	0.16	20	0.945	8.81	24	POS	0
Dietrich	st2	Assay15	U/A	Gen	3.59	111.60	-7.27	-0.69	3.35	3.26	0.08	0.10	20	0.978	7.36	24	POS	0
Dietrich	st2	Assay15	U/A	Equol	5.91	102.50	-6.75	-0.77	2.86	2.04	0.07	0.10	20	0.984	5.59	24	POS	0
Dietrich	st2	Assay15	U/A	EE2	-1.42	.	-12.05	-0.18	13.26	.	1.07	0.24	20	0.647	19.20	24	POS	0
Dietrich	st2	Assay15	U/A	DES	10.48	.	-12.13	-0.32	4.22	.	0.46	0.70	20	0.842	11.58	24	POS	0
Dietrich	st2	Assay15	U/A	DDT	-1.E+12	122.20	-5.17	-0.15	5.E+12	17.16	0.35	0.08	20	0.722	15.45	24	POS	0
Dietrich	st2	Assay15	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st2	Assay15	U/A	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st2	Assay15	U/A	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	21April09EtOH	U/A	Hexestrol	2.82	108.80	-6.60	-0.49	5.22	6.41	0.13	0.11	20	0.956	9.41	24	POS	0
Lovelace	st2	21April09EtOH	U/A	Gen	2.35	125.10	-6.51	-0.51	2.67	3.53	0.06	0.05	20	0.990	5.11	24	POS	0
Lovelace	st2	21April09EtOH	U/A	EE2	7.48	86.26	-9.44	-0.72	1.15	17.55	0.09	0.20	20	0.969	3.92	24	POS	0
Lovelace	st2	21April09EtOH	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	21April09EtOH	U/A	Cort	24.36	121.20	-4.30	-1.33	10.54	4.35	0.23	0.57	20	0.868	16.34	24	NEG	0
JapanCERI	st3	91026	U/A	Zear	2.20	106.60	-5.90	-1.13	0.89	0.71	0.02	0.07	20	0.998	2.14	24	POS	0
JapanCERI	st3	91026	U/A	Tamox	2.50	105.70	-6.27	-1.09	1.17	1.13	0.03	0.07	20	0.996	3.15	24	POS	0
JapanCERI	st3	91026	U/A	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91026	U/A	Kepone	13.21	106.70	-5.72	-1.48	2.23	1.63	0.07	0.33	20	0.987	5.36	24	POS	0
JapanCERI	st3	91026	U/A	Heptylphenol	11.16	112.10	.	.	129.50	6.78	.	.	20	0.659	26.25	24	WEAK	0
JapanCERI	st3	91026	U/A	DHT	6.45	109.30	-6.41	-0.89	1.11	1.13	0.03	0.05	20	0.997	2.88	24	POS	0
JapanCERI	st3	91026	U/A	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91026	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91026	U/A	BPA	7.13	91.03	-6.13	-2.04	9.95	9.59	0.41	6.16	20	0.686	28.90	24	POS	0
Missouri	st4	1110	U/A	OTES-1	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	1110	U/A	Nethdrone-2	1.10	78.84	-5.43	-1.98	4.31	1.88	0.14	0.66	20	0.955	7.25	24	POS	0
Missouri	st4	1110	U/A	Nethdrone-1	2.11	89.18	-5.62	-1.69	3.97	1.71	0.08	0.32	20	0.972	6.56	24	POS	0
Missouri	st4	1110	U/A	HPTE-1	-0.76	57.68	.	.	7.90	4.59	.	.	20	0.734	16.52	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Missouri	st4	1110	U/A	Gen-1	0.93	78.97	-6.45	-1.01	5.05	2.97	0.14	0.30	20	0.930	9.67	24	POS	0
Missouri	st4	1110	U/A	Dex-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st4	1110	U/A	DBP	.	.	.	.	.	.	.	.	.	.	.	18	NEG	0
Missouri	st4	1110	U/A	Cort-1	.	.	.	.	.	.	.	.	.	.	.	23	NEG	0
Missouri	st4	1110	U/A	BPA-1	1.38	81.43	-6.26	-0.47	8.20	5.07	0.19	0.15	20	0.918	9.47	24	POS	0
Dietrich	st1	Assay01	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Dietrich	st1	Assay02	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st1	3-Dec-08	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st1	9-Dec-08	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Lovelace	st1	27-Jan-09	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	09July10 EtOH_Buffer	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st12	19Aug10EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Ceetox	st2	20090128	U/U	NPhenol	16.28	74.41	.	.	3.12	4.03	.	.	20	0.867	12.09	24	POS	1
Ceetox	st2	20090128	U/U	Hexestrol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Ceetox	st2	20090128	U/U	Gen	16.59	.	-9.90	-1.16	1.86	.	1.00	1.65	20	0.810	7.70	24	POS	1
Ceetox	st2	20090128	U/U	Equol	1.19	67.82	-7.60	-0.81	1.82	2.40	0.11	0.14	20	0.975	4.97	24	POS	1
Ceetox	st2	20090128	U/U	EE2	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Ceetox	st2	20090128	U/U	DES	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Ceetox	st2	20090128	U/U	DDT	15.52	73.06	.	.	4.04	3.19	.	.	20	0.886	10.48	24	POS	1
Ceetox	st2	20090128	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Ceetox	st2	20090128	U/U	Cort	1.99	110.40	-8.66	0.22	58.18	16.98	0.27	0.16	19	0.897	8.81	23	NEG	1
Ceetox	st2	20090128	U/U	ButylPar	15.11	81.69	-5.95	-1.00	4.19	3.18	0.13	0.37	20	0.919	9.47	24	POS	1
Freyberger	st2	C	U/U	NPhenol	10.66	84.72	-6.21	-0.73	2.79	2.32	0.09	0.13	20	0.971	5.83	24	POS	1
Freyberger	st2	C	U/U	Hexestrol	2.07	66.73	.	.	2.81	3.96	.	.	20	0.921	9.71	24	POS	1
Freyberger	st2	C	U/U	Gen	1.28	80.21	-6.60	-1.06	3.33	2.52	0.09	0.20	17	0.967	6.94	21	POS	1
Freyberger	st2	C	U/U	Equol	9.08	86.51	-7.23	-1.82	1.60	2.25	0.09	0.64	20	0.981	5.45	24	POS	1
Freyberger	st2	C	U/U	EE2	4.38	76.46	-8.88	-1.28	0.84	2.22	0.04	0.14	20	0.988	3.18	24	POS	1
Freyberger	st2	C	U/U	DES	2.43	84.63	-8.23	-1.16	1.34	2.91	0.06	0.22	20	0.983	4.72	24	POS	1
Freyberger	st2	C	U/U	DDT	15.87	84.03	-6.01	-1.54	2.83	1.81	0.05	0.69	17	0.972	5.57	21	POS	1
Freyberger	st2	C	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Freyberger	st2	C	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Freyberger	st2	C	U/U	ButylPar	5.58	82.39	-5.13	-0.60	6.22	2.04	0.10	0.12	20	0.964	5.77	24	POS	1
Lovelace	st2	06Feb09EtOH	U/U	NPhenol	.	.	.	.	.	.	.	.	.	.	.	24	POS	1

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st2	09Feb09EtOH	U/U	NPhenol	-31.38	100.90	-4.53	-0.65	107.90	2.33	0.15	0.34	20	0.928	7.72	24	POS	0
Lovelace	st2	12Feb09EtOH	U/U	NPhenol	-17.00	101.80	-4.98	-0.56	23.19	1.79	0.08	0.12	20	0.973	5.44	24	POS	0
Lovelace	st2	10April09EtOH	U/U	Hexestrol	.	1044.00	.	-0.84	.	29.45	.	0.15	20	0.973	77.37	24	POS	0
Lovelace	st2	13May09EtOH	U/U	Hexestrol	20.33	113.30	-7.14	-0.73	2.07	2.16	0.07	0.09	20	0.987	4.91	24	POS	0
Lovelace	st2	24April09EtOH	U/U	Hexestrol	30.47	88.08	.	.	5.48	11.63	.	.	20	0.621	20.86	24	POS	1
Lovelace	st2	28April09EtOH	U/U	Hexestrol	14.46	117.70	-7.02	-0.79	2.79	2.64	0.08	0.11	20	0.982	6.55	24	POS	0
Lovelace	st2	10April09EtOH	U/U	Gen	.	.	.	.	.	.	.	.	.	.	.	24	POS	0
Lovelace	st2	13May09EtOH	U/U	Gen	13.05	115.50	-5.97	-0.72	3.56	1.83	0.07	0.09	20	0.986	5.33	24	POS	0
Lovelace	st2	24April09EtOH	U/U	Gen	6.71	139.00	-6.85	-0.56	7.00	6.60	0.15	0.13	20	0.953	12.67	24	POS	0
Lovelace	st2	28April09EtOH	U/U	Gen	13.35	110.00	-6.98	-0.77	5.12	4.58	0.14	0.20	20	0.938	11.49	24	POS	0
Lovelace	st2	06Feb09EtOH	U/U	Equol	9.25	121.40	-6.78	-0.95	4.31	3.55	0.10	0.21	20	0.966	10.04	24	POS	0
Lovelace	st2	09Feb09EtOH	U/U	Equol	0.11	84.37	-7.90	-0.82	3.23	3.50	0.11	0.18	20	0.958	8.25	24	POS	0
Lovelace	st2	12Feb09EtOH	U/U	Equol	9.39	118.20	-6.13	-0.80	10.01	9.65	0.26	0.38	20	0.819	23.93	24	POS	0
Lovelace	st2	28May09EtOH	U/U	Equol	5.45	99.61	-7.21	-0.79	1.86	1.68	0.05	0.08	20	0.991	4.27	24	POS	0
Lovelace	st2	10April09EtOH	U/U	EE2	32.83	575.00	-6.26	-1.49	28.19	39.90	0.56	0.80	20	0.890	94.65	24	POS	0
Lovelace	st2	24April09EtOH	U/U	EE2	-5.15	93.59	-8.27	-0.39	10.03	15.05	0.26	0.17	20	0.873	13.95	24	POS	0
Lovelace	st2	28April09EtOH	U/U	EE2	9.55	76.14	-8.90	-0.63	2.91	5.74	0.16	0.18	20	0.927	7.83	24	POS	1
Lovelace	st2	28May09EtOH	U/U	EE2	4.71	99.55	-8.24	-1.07	3.58	1.15	0.04	0.12	20	0.987	4.26	24	POS	0
Lovelace	st2	06Feb09EtOH	U/U	DES	8.32	128.10	-6.97	-0.69	6.98	3.61	0.12	0.14	20	0.962	10.22	24	POS	1
Lovelace	st2	09Feb09EtOH	U/U	DES	1.68	103.90	-8.10	-1.02	1.53	1.36	0.03	0.10	20	0.994	3.82	24	POS	0
Lovelace	st2	12Feb09EtOH	U/U	DES	10.57	99.68	.	.	6.57	6.27	.	.	20	0.851	19.10	24	POS	0
Lovelace	st2	13May09EtOH	U/U	DES	19.95	114.50	-7.67	-0.60	2.42	2.04	0.07	0.07	20	0.989	4.42	24	POS	0
Lovelace	st2	06Feb09EtOH	U/U	DDT	.	127.50	.	.	.	3.94	.	.	20	0.825	15.27	24	POS	1
Lovelace	st2	09Feb09EtOH	U/U	DDT	-2.E+11	116.30	-5.30	-0.33	3.E+12	2.12	0.06	0.05	20	0.963	5.77	24	POS	0
Lovelace	st2	12Feb09EtOH	U/U	DDT	29.58	99.83	-5.34	-1.28	4.15	1.70	0.12	0.30	20	0.958	6.34	24	POS	0
Lovelace	st2	06Feb09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	09Feb09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	10April09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st2	12Feb09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	13May09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	24April09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	28April09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	28May09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st2	10April09EtOH	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	24April09EtOH	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	28April09EtOH	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	28May09EtOH	U/U	Cort	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st2	06Feb09EtOH	U/U	ButylPar	26.95	130.70	-4.74	-1.10	9.43	3.04	0.14	0.32	20	0.925	11.26	24	POS	0
Lovelace	st2	09Feb09EtOH	U/U	ButylPar	9.25	121.40	-6.78	-0.95	4.31	3.55	0.10	0.21	20	0.966	10.04	24	POS	0
Lovelace	st2	12Feb09EtOH	U/U	ButylPar	-55.80	104.50	-4.11	-0.29	172.90	7.69	0.22	0.19	20	0.881	11.01	24	POS	0
Lovelace	st2	13May09EtOH	U/U	ButylPar	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Dietrich	st3	Assay07	U/U	Zear	17.56	95.49	-8.70	-0.71	6.05	38.27	0.33	0.64	20	0.617	20.26	24	POS	0
Dietrich	st3	Assay07	U/U	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay07	U/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay07	U/U	HPTE	4.49	95.08	-7.10	-1.29	3.48	3.14	0.08	0.44	20	0.959	9.28	24	POS	0
Dietrich	st3	Assay07	U/U	Equol	6.99	96.00	-6.45	-1.07	3.43	3.09	0.08	0.19	15	0.972	7.27	19	POS	0
Dietrich	st3	Assay07	U/U	ELactone	21.21	97.72	-4.19	-1.37	5.55	2.21	0.10	0.36	20	0.933	8.39	24	WEAK	0
Dietrich	st3	Assay07	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Dietrich	st3	Assay07	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	12	NEG	0
Dietrich	st3	Assay07	U/U	ButylPar	-317.80	110.10	-4.04	-0.28	1300.00	7.06	0.17	0.18	20	0.916	11.26	24	POS	0
Dietrich	st3	Assay07	U/U	BPA	-2.40	106.20	-5.10	-0.51	11.99	4.42	0.15	0.14	20	0.938	10.65	24	POS	0
JapanCERI	st3	91104	U/U	E2-TC	5.68	114.80	-8.82	-1.43	2.04	6.54	0.07	0.49	20	0.965	7.79	24	POS	0
JapanCERI	st3	91104	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
JapanCERI	st3	91104	U/U	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
JapanCERI	st3	91104	U/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	17Jun09EtOH	U/U	Zear	0.18	145.70	-7.86	-0.58	1.68	2.94	0.04	0.04	20	0.996	4.04	24	POS	0
Lovelace	st3	23Jun09EtOH	U/U	Zear	2.69	127.60	-7.14	-0.60	4.92	4.92	0.11	0.11	20	0.969	9.87	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st3	31Mar09EtOH	U/U	Zear	-6.02	377.40	-7.00	-1.42	29.76	23.17	0.26	0.49	20	0.872	69.40	24	POS	0
Lovelace	st3	10Mar09EtOH	U/U	Tamox	10.52	131.90	-6.65	-0.63	13.33	5.61	0.20	0.21	20	0.909	15.60	24	POS	0
Lovelace	st3	20Mar09EtOH	U/U	Tamox	0.91	80.77	-6.65	-1.19	7.89	5.29	0.22	0.53	20	0.825	17.50	24	POS	1
Lovelace	st3	24Mar09EtOH	U/U	Tamox	-1.94	112.60	-7.67	-0.80	2.33	1.60	0.04	0.07	20	0.993	4.54	24	POS	0
Lovelace	st3	25Jun09EtOH	U/U	Tamox	5.97	137.90	-7.31	-0.92	1.08	1.13	0.03	0.04	20	0.998	2.87	24	POS	0
Lovelace	st3	17Jun09EtOH	U/U	Progesterone	30.39	160.20	-5.65	-0.51	6.71	5.18	0.19	0.10	20	0.968	9.83	24	NEG	0
Lovelace	st3	23Jun09EtOH	U/U	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	31Mar09EtOH	U/U	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	10Mar09EtOH	U/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Lovelace	st3	20Mar09EtOH	U/U	OTES	-2.E+09	160.60	-10.89	0.16	2.E+13	14.64	0.46	0.07	20	0.838	16.88	24	NEG	0
Lovelace	st3	24Mar09EtOH	U/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	25Jun09EtOH	U/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	17Jun09EtOH	U/U	NE-TC	-0.86	131.80	-6.08	-0.91	4.91	2.85	0.07	0.14	20	0.978	9.01	24	POS	0
Lovelace	st3	23Jun09EtOH	U/U	NE-TC	-1.E+11	214.30	-5.69	-0.07	2.E+13	162.50	0.58	0.09	20	0.559	47.80	24	POS	0
Lovelace	st3	31Mar09EtOH	U/U	NE-TC	-23.85	369.80	-5.36	-0.69	59.38	11.84	0.19	0.21	20	0.926	38.68	24	POS	0
Lovelace	st3	17Jun09EtOH	U/U	Kepone	28.54	167.20	-8.02	-0.62	10.28	33.61	0.52	0.38	20	0.757	30.00	24	POS	0
Lovelace	st3	23Jun09EtOH	U/U	Kepone	-9.23	146.20	-4.91	-0.36	70.69	12.06	0.31	0.22	20	0.821	21.50	24	POS	0
Lovelace	st3	31Mar09EtOH	U/U	Kepone	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st3	17Jun09EtOH	U/U	Heptylphenol	44.00	146.70	-5.59	-1.98	6.28	4.35	0.37	1.63	20	0.917	15.01	24	WEAK	0
Lovelace	st3	23Jun09EtOH	U/U	Heptylphenol	46.93	128.20	-4.23	-1.43	12.68	4.89	1.03	1.04	20	0.749	18.62	24	WEAK	1
Lovelace	st3	31Mar09EtOH	U/U	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	24	WEAK	0
Lovelace	st3	10Mar09EtOH	U/U	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	WEAK	1
Lovelace	st3	20Mar09EtOH	U/U	ELactone	.	.	.	.	.	.	.	.	.	.	.	24	WEAK	1
Lovelace	st3	24Mar09EtOH	U/U	ELactone	-2.E+10	115.60	-4.10	-0.29	4.E+12	5.97	0.11	0.09	20	0.869	9.68	24	WEAK	0
Lovelace	st3	25Jun09EtOH	U/U	ELactone	50.00	137.70	-5.56	-2.77	.	.	.	.	.	.	.	24	WEAK	0
Lovelace	st3	17Jun09EtOH	U/U	E2-TC	1.19	139.10	-9.33	-1.02	1.69	5.02	0.05	0.11	20	0.987	6.16	24	POS	0
Lovelace	st3	23Jun09EtOH	U/U	E2-TC	3.37	104.60	-8.45	-0.80	2.30	3.90	0.07	0.12	20	0.977	6.87	24	POS	0
Lovelace	st3	31Mar09EtOH	U/U	E2-TC	-27.50	353.60	-8.22	-0.68	11.44	15.89	0.14	0.12	20	0.972	29.06	24	POS	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}												Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N		
Lovelace	st3	10Mar09EtOH	U/U	DHT	-4.E+11	236.30	-5.00	-0.12	4.E+13	69.01	0.63	0.10	20	0.574	49.22	24	POS	1
Lovelace	st3	20Mar09EtOH	U/U	DHT	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st3	24Mar09EtOH	U/U	DHT	8.13	114.50	-5.87	-0.82	14.49	2.74	0.12	0.24	20	0.935	9.62	24	POS	0
Lovelace	st3	25Jun09EtOH	U/U	DHT	2.62	122.60	-5.62	-0.72	8.21	2.98	0.10	0.15	20	0.965	9.21	24	POS	0
Lovelace	st3	10Mar09EtOH	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	20Mar09EtOH	U/U	DBP-TC	48.52	97.84	.	.	3.46	183.00	.	.	20	0.636	13.39	24	NEG	1
Lovelace	st3	24Mar09EtOH	U/U	DBP-TC	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Lovelace	st3	10Mar09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	1
Lovelace	st3	17Jun09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	20Mar09EtOH	U/U	DBP	-5.E+06	72.28	-9.97	0.72	5.E+12	5.97	0.44	2.00	17	0.237	15.89	21	NEG	1
Lovelace	st3	23Jun09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	24Mar09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	25Jun09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	31Mar09EtOH	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Lovelace	st3	10Mar09EtOH	U/U	BPA	.	.	.	.	.	.	.	.	.	.	.	24	POS	1
Lovelace	st3	20Mar09EtOH	U/U	BPA	15.06	82.28	-4.69	-2.04	13.00	5.74	0.46	2.94	20	0.657	22.11	24	POS	1
Lovelace	st3	24Mar09EtOH	U/U	BPA	10.21	116.10	-5.79	-1.23	4.14	2.10	0.07	0.30	20	0.977	7.32	24	POS	0
Lovelace	st3	20Mar09EtOH	U/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	1
Lovelace	st3	24Mar09EtOH	U/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8001	U/U	Progesterone	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8001	U/U	OTES	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0
Missouri	st3	8001	U/U	Kepone	0.32	93.07	-5.07	-1.04	1.31	0.65	0.02	0.07	20	0.997	2.20	24	POS	0
Missouri	st3	8002	U/U	Kepone	-0.08	92.63	-5.03	-1.00	1.54	0.72	0.02	0.07	20	0.996	2.43	24	POS	0
Missouri	st3	8001	U/U	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	21	WEAK	0
Missouri	st3	8002	U/U	Heptylphenol	.	.	.	.	.	.	.	.	.	.	.	21	WEAK	0
Missouri	st3	8001	U/U	ELactone	17.62	90.10	-3.92	-0.94	4.15	0.81	0.05	0.14	20	0.986	2.94	24	WEAK	0
Missouri	st3	8002	U/U	ELactone	12.77	94.19	-3.87	-0.89	5.89	0.94	0.05	0.15	20	0.985	3.37	24	WEAK	0
Missouri	st3	8001	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0
Missouri	st3	8002	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^e	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
Missouri	st3	8001	U/U	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st3	8002	U/U	BaA_Ethol	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st3	8001	U/U	Atr	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	1105	U/U	OTES-1	.	.	.	.	.	.	.	.	.	.	.	24	NEG	0	
Missouri	st4	1105	U/U	Nethdrone-2	18.94	95.33	-5.35	-1.85	3.71	1.61	0.09	0.37	20	0.967	6.21	24	POS	0	
Missouri	st4	1105	U/U	Gen-1	7.97	90.30	-5.74	-2.52	2.10	0.94	0.11	1.09	20	0.991	3.62	24	POS	0	
Missouri	st4	1105	U/U	DBP	.	.	.	.	.	.	.	.	.	.	.	21	NEG	0	
Missouri	st4	1105	U/U	BPA-1	14.18	99.48	-4.63	-1.36	2.80	1.19	0.06	0.22	20	0.986	4.44	24	POS	0	

*A run with missing estimates for part of the PRISM fit parameters indicates an 'ambiguous fit' for the data. Runs with all estimates for the PRISM fit are missing indicate a 'non-binder' for the hrER.

^a Acceptable (E2/NE). Indicates that the positive controls (reference estrogen (E2) and weak binder, norethynodrel (NE) were classified as 'acceptable' or 'unacceptable' for that particular run based upon judgement considering all estimated PRISM fit parameters simultaneously (top, bottom, slope, residual variability, LogIC50, Hill slope, R2) (see Appendix F, pages 20-21), and the Integrated Summary Report, Section III.A.2). (A/A)= both E2 and NE control data were acceptable for that particular run; (A/U)= acceptable E2 and unacceptable NE control data for that particular run; and (U/U)= unacceptable E2 and NE control data for that particular run. Only data for test chemicals that were produced during a run with acceptable data for the controls (E2 and NE, e.g, A/A) were used in the independent statistical analysis conducted by Battelle (Appendix F).

^b PRISM fit parameters for competitive binding data for each run. For description of data analysis refer to Section III.A.2, Data handling and statistical analysis, in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα).

^c The selection of test chemicals and derivation of expected binding affinities are described in Section II.E, Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα). In brief, the selection of chemicals was based upon strong historical documentation in published literature, input from scientists on the Study Management Team, the Validation Management Group-Non Animal Workgroup, and the Chemical Advisory Board.

^d "0" Indicates that data were submitted as 'acceptable' by the laboratory conducting the run; "1" indicates that data were submitted as 'unacceptable' by the laboratory based on an identified technical error while conducting the run (Appendix H, Task 2).

^e Following a technical review of the standardized data analysis, some runs were re-analyzed using the 10% rule. Updated PRISM fit estimates for these runs are shown in Appendix C, Addendum. (Refer to Appendix H, Task 3 and the Integrated Summary Report, Section III.A.2) for additional information).

Laboratory ^f	SubTask	Run ID	Run Acceptable (E2/NE) ^a	Chemical ^g	PRISM Fit Parameters ^{b,e,f}													Expected hrER Binding ^c	Run Accepted by Lab ^d
					Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hill Slope (Estimate)	Bottom (SEM)	Top (SEM)	LogIC ₅₀ (SEM)	Hill slope (SEM)	DF	r ²	Syx	N			
^f Several of the participating laboratories are referenced by alternate names in the Battelle Data Analysis Reports. The laboratory name listed in parenthesis is consistent with that used in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα). Freyberger (Bayer), JapanCERI (CERI), Missouri (U. Missouri), Dietrich (U. Konstanz), Lovelace (Lovelace Respiratory Research Laboratory), CeeTox (no alternate name used).																			
^g Abbreviations: Atrazine (Atr), Benz(a)anthracene (BaA), Bisphenol A (BPA), Butyl paraben [n-butyl-4-hydroxybenzoate] (ButylPar), Corticosterone (Cort), Di-n-butyl phthalate (DBP, uncoded negative control, non-binder), Di-n-butyl phthalate-TC (DBP-Test Chemical, coded test chemical), o,p'-DDT (DDT; 1,1,1-trichloro-2-[o-chlorophenyl]ethane), Diethylstilbestrol (DES), Dexamethasone (Dex), 5α-dihydrotestosterone (DHT), 17β-Estradiol (E2, Reference estrogen, uncoded Control), 17β-Estradiol-TC (E2-Test Chemicals, coded test chemical),17α-ethynylestradiol (EE2), Enterolactone (ELactone), Equol (Equol), Genistein (Gen), Meso-Hexestrol (Hexestrol), 2,2-bis(p-hydroxyphenyl)-1,1,1-trichloroethane (HPTE), Kepone (Kepone), Norethynodrel (NE, uncoded Control, weak binder), Norethynodrel-TC (NE-Test Chemical, coded test chemical), 19-Norethindrone (Nethdrone), Nonylphenol [mixture] (NPhenol), Octyltriethoxysilane (OTES), Progesterone (P4), Tamoxifen (Tamox), Zearalenone (Zear)																			

				ADDENDUM, Appendix C									
Appendix C. Task 3. Equivocal Runs Subject to the 10% Rule. Recharacterization of Binding Status Following Application of the 10% Rule.													
Table C-1. CERI Protocol. Equivocal Runs (as Classified in 2011 Analysis) Subject to the 10% Rule. Concentration Level Affected by 10% Rule. Recharacterization of Binding Status Following Application of the 10% Rule: Interactive (2), Equivocal (1), Non-Interactive (0), Non-Testable (.).													
Laboratory	Chemical	Subtask	Test Run	Individual Classification Code	Concentration Affected by 10% Rule	Prism Fits Following Application of the 10% Rule							
						Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)
Ceetox	Dex-2	st4	20090930A	1	-3, -4								
Ceetox	Cort-2	st4	20090903A	1	-3	47.45	83.79			11.41	4.657		
Ceetox	Cort-2	st4	20090930A	1	-3, -4								
Ceetox	Gen-2	st4	20090930B	2	-3	8.983	86.62	-6.696	-1.235	1.796	1.459	0.04871	0.1516
Ceetox	EE2	st2	20090221	1	-3	6.707	91.1			2.153	3.893		
Freyberger	Cort	st2	B	1	-3								
Freyberger	Gen	st2	E	2	-3	-3.272	90.46	-5.894	-1.616	1.406	0.7093	0.02001	0.1987
Freyberger	Gen	st2	F	2	-3	0.07451	99.08	-5.887	-1.795	1.308	0.6924	0.02205	0.302
Freyberger	Gen	st2	G	2	-3	0.1623	100.5	-5.806	-1.629	1.731	0.868	0.02999	0.2265
Freyberger	E2-TC	st3	CODE A3	2	-3	-1.779	104.8	-9.043	-0.9496	0.6623	3.744	0.02179	0.08106
Lovelace	Equol	st2	2-27-2009T	1	-3.4								
Lovelace	Equol	st2	5-6-2009T	1	-3	4.075			-0.9937	4.771			0.6347
Lovelace	Hexestrol	st2	2-27-2009T	1	-3	24.18	58.67			6.313	5.902		
Lovelace	E2-TC	st12	4-7-2010_3	1	-4								
Lovelace	DHT	st3	6-11-2009T	2	-4.5	25.77	128.5	-5.97	-1.293	17.12	2.686	0.222	0.8214
Lovelace	EE2	st12	4-7-2010_3	1	-4								
Lovelace	EE2	st2	2-27-2009T	1	-9								
Lovelace	EE2	st2	5/4/2009	1	-4								
Lovelace	EE2	st2	5/5/2009	1	-4								
Lovelace	EE2	st2	5-6-2009T	1	-4	-3.413		-10.86	-0.461	3.017		0.2468	0.1126
Missouri	Cort	st2	5006	1	-4								
Missouri	Gen	st2	5009	1	-3	19.35	118.8			47.82	1.12		
Missouri	E2-TC	st3	6006	2	-5	-0.5779	91.81	-9.294	-1.056	1.378	8.971	0.05616	0.2439
Missouri	E2-TC	st3	6007	2	-5	4.87	113.2	-9.047	-1.586	2.983	15.9	0.05806	1.378
Missouri	Tamox	st3	6007	2	-5, -6	-13.82	144	-8.494	-0.5435	23.65	40.85	0.1094	0.3117
Missouri	Heptylphenol	st3	6502	1	-3								
Missouri	Gen-1	st4	2206	2	-3, -4	2.038	93.16	-6.879	-1.115	2.976	1.763	0.04476	0.1768

Laboratory	Chemical	Subtask	Test Run	Individual Classification Code	Concentration Affected by 10% Rule	Prism Fits Following Application of the 10% Rule							
						Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom	Top	LogIC ₅₀	Hillslope
										(Std Error)	(Std Error)	(Std Error)	(Std Error)
Missouri	Gen-1	st4	2211	2	-3, -4	7.064	96.97	-6.862	-0.9643	4.108	2.55	0.06645	0.1937
Missouri	BPA-1	st4	2206	2	-3	10.09	90.16	-5.935	-1.582	3.789	2.161	0.06188	0.7873
Missouri	BPA-2	st4	2305	2	-3, -4	11.59	77.27	-6.442	-1.393	6.615	3.459	0.1596	0.5359
Missouri	Nethdrone-3	st4	2301	2	-3, -4	8.298	88.14	-6.785	-0.9817	3.454	1.854	0.05843	0.1623
Missouri	Nethdrone-3	st4	2305	2	-3, -4	21.13	95.32	-6.239	-0.7698	10.62	4.158	0.1725	0.2943
Missouri	HPTE-2	st4	2305	2	-3, -4, -5	-3.935	74.71	-7.668	-1.011	5.85	3.213	0.1058	0.2397
Missouri	OTES-2	st4	2301	1	-3, -4								
Missouri	OTES-2	st4	2305	1	-3, -4, -5, -7								
Missouri	Nethdrone-4	st4	2305	2	-3, -4	11.75	83.23	-6.415	-0.8711	7.723	2.921	0.114	0.256
Missouri	Gen-2	st4	2301	2	-3, -4	-6.666	81.56	-7.185	-0.9441	3.05	1.914	0.05517	0.1416
Missouri	Gen-2	st4	2302	2	-3, -4, -5	-7.31	123.2	-6.463	-0.6831	41.23	4.209	0.1048	0.2627
Missouri	Gen-2	st4	2305	2	-3, -3, -5	-2.40E+07	96.18	-6.411	-0.4159	5.58E+12	6.473	0.1051	0.2248
*Runs that are missing some of the estimates in the PRISM fit parameters indicate data that produced an ambiguous curve fit.													
††Several of the participating laboratories are referenced by alternate names in the Battelle Data Analysis Reports. The laboratory name listed in parenthesis is consistent with that used in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERα). Freyberger (Bayer), JapanCERI (CERI), Missouri (U. Missouri), Dietrich (U. Konstanz), Lovelace (Lovelace Respiratory Research Laboratory), CeeTox (no alternate name used).													
Table C-2. FWA Protocol. Equivocal Runs (as Classified in 2011 Analysis) Subject to the 10% Rule. Concentration Level Affected by 10% Rule. Recharacterization of Binding Status Following Application of the 10% Rule: Interactive (2), Equivocal (1), Non-Interactive (0), Non-Testable ().													
Laboratory	Chemical	Subtask	Test Run	Individual Classification Code	Concentration Affected by 10% Rule	Prism Fits Following Application of the 10% Rule							
						Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom	Top	LogIC ₅₀	Hillslope
										(Std Error)	(Std Error)	(Std Error)	(Std Error)
Cero	Atr	st3	20090418B	0	-3								
Cero	BPA	st4	20090914	2	-3	10.72	99.2	-5.647	-0.9468	5.067	2.234	0.08354	0.1972
Cero	BaA_DMSO	st3	20090505DMSO		-3, -4, -5, -6, -7, -8								
Cero	OTES	st3	20090418	1	-4.5		100.1				3.451		
Cero	Progesterone	st3	20090418		-3, -4, -5, -6, -7, -8								
Dietrich	Atr	st3	Assay13		-3, -4, -5, -6, -7, -8								
Dietrich	Atr	st3	Assay12_1	1	-4, -5, -6, -7, -8								

Laboratory	Chemical	Subtask	Test Run	Individual Classification Code	Concentration Affected by 10% Rule	Prism Fits Following Application of the 10% Rule							
						Bottom (Estimate)	Top (Estimate)	LogIC ₅₀ (Estimate)	Hillslope (Estimate)	Bottom	Top	LogIC ₅₀	Hillslope
										(Std Error)	(Std Error)	(Std Error)	(Std Error)
Dietrich	BaA_Ethol	st3	Assay10_1	1	-5,-6,-7,-8,-9,-10								
Dietrich	ButylPar	st2	Assay06	1	-6,-7,-8								
Dietrich	Cort	st2	Assay16	1	-4,-5,-6								
Dietrich	Cort_b	st3	Assay12_1	1	-3,-4								
Dietrich	DBP	st1	Assay03	1	-4								
Dietrich	Dex	st3	Assay15 (III)		-3,-4,-5,-6,-7,-8								
Dietrich	Dex	st3	Assay10_2	1	-3.6,-5								
Dietrich	Dex	st3	Assay12_2	1	-3.6,-5								
Dietrich	E2-TC	st3	Assay10_1	1	-4								
Dietrich	Tamox	st3	Assay10_2	1	-3.6								
Freyberger	DBP	st3	Code B2		-4,-5,-6,-7,-8,-8-3								
Freyberger	E2-TC	st3	Code AB	1	-3								
Freyberger	E2-TC	st3	Code B2	1	-3								
Freyberger	Zear	st3	Code A1	1	-3	2.939	63.79			1.694	2.024		
JapanCERI	BaA_DMSO	st3	91110	1	-3,-4,-5,-6,-7								
JapanCERI	Progesterone	st3	91021	1	-3,-4								
Lovelace	DBP	st2	Run24Feb09EtOH		-4,-5,-6,-7,-8,-9								
*Runs that are missing some of the estimates for the PRISM fit parameters indicate data that produced an ambiguous curve fit.													
††Several of the participating laboratories are referenced by alternate names in the Battelle Data Analysis Reports. The laboratory name listed in parenthesis is consistent with that used in the Integrated Summary Report: Validation of Two Binding Assays Using Human Recombinant Estrogen Receptor Alpha (hrERa). Freyberger (Bayer), JapanCERI (CERI), Missouri (U. Missouri), Dietrich (U. Konstanz), Lovelace (Lovelace Respiratory Research Laboratory), CeeTox (no alternate name used).													

Chemical Approval Board (CAB) Report

1 August 2006

Submitted by:

Dr. Taisen Iguchi, Okazaki Institute for Integrative Bioscience, NIBB

Dr. William Kelce, Pozen Pharmaceuticals

Dr. Weida Tong, NCTR, US FDA

In 1996, the US Environmental Protection Agency (EPA) was mandated to develop an Endocrine Disruptor Screening Program (EDSP) through the Food Quality Protection Act (FQPA). As part of the EDSP program, the EPA is proposing to use the Estrogen Receptor Binding Assay to screen for chemicals that interact with the estrogen receptor (ER). In 2000, the EPA asked the Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) to review the literature on ER binding assays and to validate an assay based on data in the published literature. ICCVAM found that many ER binding assays were reported on in the literature, but that there was not one consistent source of ER (recombinant, tissue, cell line) or one single protocol that was used. They concluded that there was insufficient information available to validate any one ER binding method. ICCVAM recommended that "Recombinant rat or human ERs (α and β subtypes) should be given the highest priority for further test method standardization, pre-validation, and validation." (ICCVAM, 2003).

In March 2003, the US EPA agreed to take the lead in and coordinate the development of recombinant ER binding assays within the recently formed Validation Management Group for Non-Animal Tests (VMG-NA) of the Organization for Economic Cooperation and Development (OECD). To this end, two human recombinant estrogen receptor alpha proteins are being used for the validation effort along with two different binding protocols. The two hrER α proteins are the Pan Vera hrER α (PV-ER; a baculovirus expressed full length ER α receptor) and the CERI protein (CERI-ER; an *E. coli* produced ER ligand binding domain linked to a GST fusion protein). The two protocols are the CERI protocol (developed by CERI, Japan) and the Freyberger-Wilson Assay (FW Assay) Protocol (developed by Alexius Freyberger and optimized by both Vickie Wilson and Alexius Freyberger). The FW Assay utilizes the PV-ER and the CERI protocol uses the CERI-ER.

International efforts to validate the use of these human recombinant estrogen receptor (hrER) binding assays are currently underway through the OECD. Steps toward validation include the development of a standardized protocol, verification of transferability of the protocol to other laboratories, demonstration that the protocol produces reproducible results for the same chemical within and across laboratories and the verification of the reliability of the assay across a range of chemicals.

The protocols have been standardized and the next step is to define a set of chemicals to be used in an inter-laboratory validation to verify the transferability and applicability of the protocols. A set of chemicals has been nominated by the OECD hrER binding validation group based on historical use in binding assays, strength of binding and chemical structural diversity. Chemicals with known affinity for ER α were given preference over chemicals that were structurally diverse but with no ER binding history. Performance was partly based on binding activity consistent with known and reported binding affinity values. The charge from the OECD hrER α validation group to the Chemical Approval Board (CAB) was to review and suggest modifications to the chemicals nominated for Tasks I, II and III as defined below.

The inter-laboratory testing is to take place using both protocols and their respective hrER α proteins in three separate tasks. Laboratories that participate in the inter-laboratory validation will include 2 laboratories that have previous experience with both the FW Assay and the CERI protocol and 3 laboratories that have experience with binding assays but have never run the FW Assay or CERI protocols specifically. The 3 tasks are outlined below:

Task I: Testing laboratories will demonstrate their ability to perform the assay using standard and negative chemicals. Task I chemicals consist of a standard with high binding affinity (17 β -Estradiol), a standard with moderate binding affinity (norethynodrel) and a negative chemical (dibutyl phthalate). These three chemicals will be assessed by each testing laboratory to establish performance relative to predefined criteria for these standard chemicals. 17 β -Estradiol is the endogenous ligand, norethynodrel is a moderate estrogen which can produce a full curve that is completed at the edge of the dose response range tested, and dibutyl phthalate is an established negative in the two assay protocols. These three standards will be tested with every experiment in tasks II and III (i.e. each run, or each day that an assay is set up) as an internal control.

Task II: Task two will test the participating laboratories' ability to obtain reproducible results within and between laboratories on 12 chemicals that have been previously tested in the FW Assay and CERI protocols and reviewed through ECVAM. These chemicals will be tested without coding the chemicals. The total number of chemicals tested in this task is 9 chemicals plus the standards.

Task III: Task three will test the participating laboratories' ability to obtain reproducible results within and across laboratories on 9 chemicals that have historically been tested in other binding assay protocols (either Rat Uterine Cytosol or hrER), but not yet in the FW Assay or CERI protocol. These chemicals will be tested in a coded manner and the binding results are expected to parallel known binding affinities. The chemicals were selected based on their expected binding affinities and their structural diversity. The list contains a large number of weak and negative compounds as these historically are the most difficult to reproduce between labs.

The CAB agreed that the chemicals nominated for Tasks I and II are appropriate. The chemicals for Tasks I and II are listed and approved below.

Task I

1. 17 β -Estradiol (strong)
2. Norethynodrel (moderate)
3. Dibutyl phthalate (negative)

Task II (un-coded)

Task II List

	Strength	CAS#	Number of participating labs		
			Europe	US	Japan
*17 β -Estradiol	Strong	50-28-2	2 (N/E)	2 (N)	1 (E)
*Norethynodrel	Moderate	68-23-5	2 (N/E)	2 (N)	1 (E)
*Dibutyl phthalate	Negative	84-74-2	2 (N/E)	2 (N)	1 (E)
DES	Very strong	56-53-1	2 (N/E)	2 (N)	1 (E)
17 α -ethynylestradiol	Very strong	57-63-6	2 (N/E)	2 (N)	1 (E)
Meso-Hexestrol	Strong	84-16-2	2 (N/E)	2 (N)	1 (E)
Genistein	Moderate	446-72-0	2 (N/E)	2 (N)	1 (E)
Equol	Moderate	531-95-3	2 (N/E)	2 (N)	1 (E)
Butyl paraben (n-butyl 4-hydroxybenzoate)	Weak	94-26-8	2 (N/E)	2 (N)	1 (E)
Nonylphenol (mixture)	Weak	84852-15-3	2 (N/E)	2 (N)	1 (E)
o,p'-DDT	Weak	789-02-6	2 (N/E)	2 (N)	1 (E)
Corticosterone	Negative	50-22-6	2 (N/E)	2 (N)	1 (E)

*Standards to be run concurrently with each run

N = Never used FW Assay protocol or CERI protocols in this laboratory

E = Experience with the FW Assay protocol and/or CERI protocol in this laboratory

For Task III, the CAB suggested more weight be placed on chemicals with weak or no binding activity to better assess assay performance in terms of specificity, sensitivity and accuracy. Specifically the CAB suggested removing estrone (a strong binder) and adding enterolactone and benz(a)anthracene (weak binders) and atrazine (a non binder). The addition of enterolactone increases structural diversity and adds an enteric metabolite of a food product i.e., lignan. The addition of benz(a)anthracene adds another known weak binder. The inclusion of atrazine adds an estrogen active compound that does not act through the estrogen receptor. This demonstrates that ER binding can be used as a mechanistic tool to differentiate mode of action of estrogen active compounds. The chemicals for Task III are listed and approved below.

The CAB acknowledges and accepts that the Equol (provided by Apin) is a racemic mixture. While natural equol is the S(-)enantiomer, both enantiomers have similar binding affinity for hER α and as such the CAB does not consider this a limitation.

Task III (coded)

Task III

	Strength	CAS#	Number of participating labs		
			Europe	US	Japan
*^17 β -Estradiol	Strong	50-28-2	2 (N/E)	2 (N)	1 (E)
*^Norethynodrel	Moderate	68-23-5	2 (N/E)	2 (N)	1 (E)
*^Dibutyl phthalate	Negative	84-74-2	2 (N/E)	2 (N)	1 (E)
Zearalenone	Strong	17924-92-4	2 (N/E)	2 (N)	1 (E)
Tamoxifen	Strong	10540-29-1	2 (N/E)	2 (N)	1 (E)
5 α -dihydrotestosterone	Weak	521-18-6	2 (N/E)	2 (N)	1 (E)
Bisphenol A	Weak	80-05-7	2 (N/E)	2 (N)	1 (E)
4-n-heptylphenol	Weak	1987-50-4	2 (N/E)	2 (N)	1 (E)
Kepone (Chlordecone)	Weak	143-50-0	2 (N/E)	2 (N)	1 (E)
Benz(a)anthracene	Weak	56-55-3	2 (N/E)	2 (N)	1 (E)
Enterolactone	Weak	78473-71-9	2 (N/E)	2 (N)	1 (E)
Progesterone	Negative	57-83-0	2 (N/E)	2 (N)	1 (E)
Octyltriethoxysilane	Negative	2943-75-1	2 (N/E)	2 (N)	1 (E)
Atrazine	Negative	1912-24-9	2 (N/E)	2 (N)	1 (E)

*Standards to be run concurrently with each run

^Standards will be run blindly with the test chemicals

N = Never used FW Assay protocol or CERI protocols in this laboratory

E = Experience with the FW Assay protocol and/or CERI protocol in this laboratory

FINAL REPORT

**ANALYSIS OF SATURATION BINDING DATA FROM SIX LABORATORIES
AND TWO PROTOCOLS FOR THE HUMAN RECOMBINANT ER alpha (hrER α)
BINDING ASSAY VALIDATION**

Zhenxu J. Ma and Paul I. Feder

Contract EP-W-06-032

**Work Assignment 5-2
Technical Directive DCC22**

Prepared for

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1.0 Introduction and Background

The EPA has been conducting validation tests on two human recombinant estrogen receptor (hrER) binding assays that utilize two hrER α proteins (Pan Vera-ER (PV-ER) and CERI-ER, respectively). The two binding assay protocols used are the Freyberger-Wilson Assay (FWA) protocol and the Chemicals Evaluation and Research Institute (CERI) protocol. In March 2009, the Data Coordination Center (DCC) performed a uniform saturation binding analysis on the saturation binding data that were available from five laboratories under Work Assignment (WA) 3-2, Technical Directive (TD) DCC19. The DCC analyzed the saturation binding data with models that accounted for both total binding and non-specific binding using PRISM¹. It developed a procedure to simultaneously graph the total, non-specific, and specific binding results. For each data set, the Battelle DCC carried out two different analyses – one that incorporated an adjustment for ligand depletion and one that did not. In October 2010, new data sets became available to be analyzed using the methods developed under TD DCC19. They were analyzed under Work Assignment 5-2, TD DCC22.

As part of the TD DCC22 analysis, the DCC developed an improved and uniformly scaled PRISM template to more uniformly present the model fits and the key figures and results across data sets and to facilitate comparison of the model fits. This new PRISM template made it easier to conduct comparisons among runs within laboratories as well as among laboratories. The new PRISM template was applied to all the data sets analyzed under both TD DCC19 and TD DCC22. The analysis results and layouts are provided in Appendices A and B.

This report documents a number of issues that arose while conducting analyses with the Excel data templates that had been supplied by the EPA for collection, reporting, and initial analysis of data. It describes the two models used to analyze the binding data, and it provides a detailed explanation of how the analyses were conducted in PRISM. It discusses in detail the procedures that were used to develop the analysis results in PRISM, but does not discuss the physical interpretations of the results. The DCC19 and DCC22 analyses were carried out using Excel and PRISM Version 5.03. The results and summaries of these analyses are included as appendices. Appendix A presents the analysis results for the FWA protocol data sets and Appendix B presents the analysis results for the CERI protocol data sets.

The remainder of the report is organized as follows: Section 2 reviews the hrER α data sets that were used in the PRISM analyses and discusses the transfer of the data from the test laboratory data templates to PRISM. Section 3 discusses the one site saturation binding models that were fitted in PRISM, both with and without adjustment for ligand depletion. The mathematical forms of the models as well as their PRISM syntaxes are presented. Section 4 discusses the detailed procedures used to fit the models in PRISM. The procedure for setting up a PRISM analysis template based on importing the data from the EPA Excel data template is given. Detailed sequences of PRISM commands are shown, including screen shots that display where and how the analysis commands are specified in PRISM. Procedures for developing layouts for summarizing and displaying the analysis results are explained in detail. The simplification of the model fitting procedures when a previously constructed PRISM analysis template is available is explained. Section 5 summarizes the detailed model fitting procedures. It elaborates on the inconsistency of treatment of background between the saturation binding models that do

¹ PRISM is statistical analysis software developed by GraphPad Software, Inc.

and do not adjust for ligand depletion. It suggests exploring the implications of including background effects in both models. Background effects are discussed further in Section 3, on PRISM model fits.

2.0 Study Data and Excel Template

In March and April 2009, under WA 3-2, Technical Directive DCC19, the DCC analyzed FWA protocol datasets from five laboratories: University of Missouri (Dr. Wade Welshons, Study Director), CeeTox (Dr. Jeff Pregenzer, Study Director), Lovelace Respiratory Research Institute (Dr. JeanClare Seagrave, Study Director), CERI-Japan (Dr. Yumi Akahori, Study Director), and Bayer HealthCare, Germany (Dr. Alexius Freyberger, Study Director); and CERI protocol datasets from three laboratories: University of Missouri, CeeTox, and Lovelace. The current Technical Directive DCC22 extends the analyses that were carried out under DCC19 to additional data sets and to an additional laboratory: CERI protocol datasets from two laboratories: Japan-CERI and the Bayer HealthCare, Germany; and FWA protocol datasets from the University of Konstanz (Dr. Daniel Dietrich, Study Director). This is summarized in Table 1 below.

Table 1. hrER α Datasets Analyzed Under TD DCC19, March 2009 and TD DCC22, October 2010

	Laboratory					
	University of Missouri	CeeTox	Lovelace	CERI - Japan	Bayer HealthCare, Germany	University of Konstanz
TD DCC19 March 2009	FWA	FWA	FWA	# ²	³	
	CERI	CERI	CERI			
TD DCC22 October 2010				FWA ⁴	FWA ³	FWA
				CERI	CERI	

Table 2 summarizes the individual assay runs that were carried out by each test laboratory, with each test protocol. The assay runs displayed in the table include those runs that were sent to the DCC for analysis in March 2009, under TD DCC19, and those assay runs that were sent to the DCC for analysis in October 2010, under TD DCC22.

All the laboratories, except the University of Konstanz laboratory, used the EPA data template format and so had common data organization. The University of Konstanz laboratory used its own data recording format that differed from the EPA format. The EPA data template included data for “Amount of radioligand added (dpm)” (column U: rows 23-46) (“Total”), “Total Bound (dpm)” (column V: rows 23-46) (“TB”), and “Non-Specific Bound (dpm)” (column W: row 23-46) (“NSB”), which were calculated based on the raw data in the column labeled “raw dpm in X μ l aliquot” (column N: row 23-94). These data (i.e., columns U, V, and W) were copied and pasted into the PRISM template to perform the saturation binding curve fit analyses. The EPA data template also included data for “specific bound (molar)” (column Z: row 23-46) and “bound/free (%)” (column AA: rows 23-46), which were also calculated based on the raw data in column N. The specific bound (“SB”) data were calculated by subtracting the averages of the

^{2,4} The FWA data collected by CERI - Japan in March 2009 were re-analyzed in October 2010 because the laboratory used the PV-hrER α with only the ligand binding domain in the March 2009 data. CERI - Japan provided new data sets that were correctly performed in October 2010.

³ The FWA data collected by Bayer HealthCare - Germany in March 2009 were re-analyzed in October 2010 because the laboratory used the incorrect volume of filtrate counted in the March 2009 data.

NSB across the (three) replicates at each concentration level from the TB. Then the SB data were converted from dpm to M (molar (moles/L)). These data were copied and pasted into the PRISM template to generate the Scatchard plot. The specific activity value was given in column X: row 20, and the total volume in the well was given in column N: row 17. The unit of volume was converted in PRISM from μL as given in the spreadsheet, to mL, as included in the model equations. These values were used to convert parameter values in the models from nM (10^{-9}M) to dpm.

The Dietrich datasets were contained in the worksheets labeled “Assay samples” or “Assay samples counting” within the Dietrich Excel spreadsheets. There were seven assay runs. For each run, three replicate measurements were given for total added in dpm (“Total”), for total bound in dpm, and for nonspecific bound (“NSB”). The specific bound (“SB”) values were derived values (as with all the data sets from all the laboratories). They were not used in the analyses. In assay runs 1 to 6 from the Dietrich laboratory, the measured values were multiplied by a “calibration factor” 1.699 to account for miscalibration of the scintillation counter. Assay run 7 did not use a “calibration factor” because the scintillation counter had been re-calibrated prior to this run being counted. For assay runs 1 to 6 the TB and NSB counts used in the analyses were those “Corrected for calibration factor” and “corrected for volume”, in columns L–N. The Total counts used in the analyses were those “Corrected for calibration factor”, in columns I–K. For assay run 7, the TB and NSB counts used in the analyses were those “corrected for volume”, in columns I–K. The Total counts used in the analyses were those measured, in columns F–H. Assays 01, 05 and 07, each reported two separate runs with differing counts.

In order to apply the saturation binding data analysis methods developed by the DCC to the Dietrich data, the Dietrich laboratory Excel template formats were converted into the EPA data template format using copy and paste as follows:

The Dietrich laboratory format templates included the replicate values in rows whereas the EPA format templates included the replicate values in columns. Thus, the values in the Dietrich laboratory worksheets needed to be transposed to put them into a format compatible with the EPA format templates. These intermediate data transpositions are included in the worksheets labeled “Transposed data”.

Using the EPA format data template for the Dietrich laboratory Assay 07 as a template (“01b_Saturation-Assay07_170408AHH_template.xls”), which was sent to the DCC by the EPA with the Dietrich data spreadsheets, the transposed data values were hard-coded into the EPA format spreadsheets in the green cells in Column R. The Total added counts were also hard coded into the green cells in Column N. The formulas programmed into the EPA template propagated the remaining cells that were used in the analyses. The template was otherwise used as is, with no further changes. The derived values used in the PRISM analyses were “Amount of radioligand added (dpm)” (column U: rows 23-46) (“Total”), “Total Bound (dpm)” (column V: rows 23-46) (“TB”), “Non-Specific Bound (dpm)” (column W: row 23-46) (“NSB”), “Specific Bound (molar)” (column Z: row 23-46) and “Bound/Free (%)” (Column AA: rows 23-46).

Four of the University of Konstanz laboratory’s test runs were listed as acceptable by the laboratory itself and were submitted for inclusion in this analysis: Assay 04, Assay 05(b), Assay 06 and Assay 07(2). The specific activity for each Dietrich laboratory run was 244.2 dpm/fmol.

The data from the three test runs for CERI-Japan with the FWA protocol and the data from the six test runs from Bayer HealthCare, Germany (three with the FWA protocol under the DCC19 and three with the CERI protocol under DCC22), were determined by the EPA to have errors in the values supplied to Battelle. Errors included use of a different form of the receptor, use of an incorrect incubation volume, use of an incorrect volume of filtrate counted, and use of an older, incorrect version of the template. The EPA sent to the DCC nine corrected data files: the three CERI-Japan (FWA) test runs were replaced by the data from three new test runs and the six Bayer HealthCare, Germany, data templates were updated. (See footnotes 2 and 3 to Table 1).

Table 2. PRISM Templates for Saturation Binding Data from Two Protocols for the Human Recombinant ER alpha (hrER α) Binding Assay

Protocol 1. FWA				
Lab	Excel File from Lab	Run Identification	Run Date	PRISM Template Filename
CeeTox	CeeTox 20080724 FWA Saturation dmp worksheet 160 ul, N18 corrected.xls	20080724 saturation 1	7/24/2008	hrER (FWA) CEETOX_07_24_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) CEETOX_07_24_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	CeeTox 20080807 FWA Saturation dmp worksheet 160 ul, N18 corrected.xls	FWA 20080807 saturation #3	8/7/2008	hrER (FWA) CEETOX_08_07_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) CEETOX_08_07_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	CeeTox 20080917 FWA Saturation dmp worksheet 160 ul, N18 corrected.xls	FWA 20080917 saturation #4	9/17/2008	hrER (FWA) CEETOX_09_14_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) CEETOX_09_14_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
University of Missouri	hrER (FWA) data entry 1012 final, v39mod.xls	1012	12/3/2008	hrER (FWA) Missouri (1012)_12_03_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Missouri (1012)_12_03_08 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (FWA) data entry 1013 final, v39mod.xls	1013	12/3/2008	hrER (FWA) Missouri (1013)_12_03_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Missouri (1013)_12_03_08 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (FWA) data entry 1016 final, v39mod.xls	1016	12/21/2008	hrER (FWA) Missouri (1016)_12_21_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Missouri (1016)_12_21_08 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (FWA) data entry 1017 final, v39mod.xls	1017	12/21/2008	hrER (FWA) Missouri (1017)_12_21_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Missouri (1017)_12_21_08 (Account for ligand depletion)_Nov_2010_refit.pzf
Lovelace	hrER-FWA-sat_110908.xls	sat3	9/11/2008	hrER (FWA) Lovelace_09_11_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Lovelace_09_11_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER-FWA-sat_300908.xls	sat4	9/30/2008	hrER (FWA) Lovelace_09_30_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Lovelace_09_30_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER-FWA-sat_091008.xls	sat5	10/9/2008	hrER (FWA) Lovelace_10_09_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (FWA) Lovelace_10_09_2008 (Account for ligand depletion)_Nov_2010_refit.pzf

Table 2. (Continued)

Protocol 1. FWA				
Lab	Excel File from Lab	Run Identification	Run Date	PRISM Template Filename
CERI-Japan	CERI n-1 12-11-08 hrER (FWA) data entry templates, v39, satn only.xls	n-1	12/11/2008	hrER (FWA) JapanCERI_12_11_2008 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (FWA) JapanCERI_12_11_2008 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf
	CERI 2 12-17-08 hrER (FWA) data entry templates, v39, satn only.xls	2	12/17/2008	hrER (FWA) JapanCERI_12_17_2008 (Account for ligand depletion)_New_Nov_2010_refit.pzf hrER (FWA) JapanCERI_12_17_2008 (No Adj for ligand depletion)_New_Nov_2010_refit.pzf
	CERI 3 12-18-08 hrER (FWA) data entry templates, v39, satn only.xls	3	12/18/2008	hrER (FWA) JapanCERI_12_18_2008 (Account for ligand depletion)_New_Nov_2010_refit.pzf hrER (FWA) JapanCERI_12_18_2008 (No Adj for ligand depletion)_New_Nov_2010_refit.pzf
Bayer HealthCare, Germany	Freyberger 3-4-2008 hrER (FWA) data entry templates, v39, satn only.xls	1	3/4/2008	hrER (FWA) Alexius Freyberger_03_04_2008 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (FWA) Alexius Freyberger_03_04_2008 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf
	Freyberger 3-6-2010 hrER (FWA) data entry templates, v39, satn only.xls	2	3/6/2008	hrER (FWA) Alexius Freyberger_03_06_2008 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (FWA) Alexius Freyberger_03_06_2008 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf
	Freyberger 3-12-2008 hrER (FWA) data entry templates, v39, satn only.xls	3	3/12/2008	hrER (FWA) Alexius Freyberger_03_12_2008 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (FWA) Alexius Freyberger_03_12_2008 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf
University of Konstanz	05Saturation-Assay04_150807AHH_template.xls	Saturation assay #04	8/14/2007	hrER (FWA) Dietrich (sat 04)_08_15_2007 (No Adj for ligand depletion)_refit.pzf hrER (FWA) Dietrich (sat 04)_08_15_2007 (Account for ligand depletion)_refit.pzf
	06Saturation-Assay05_160807AHH_template.xls	Saturation assay #05b	8/15/2007	hrER (FWA) Dietrich (sat 05_2)_08_16_2007 (No Adj for ligand depletion)_refit.pzf hrER (FWA) Dietrich (sat 05_2)_08_16_2007 (Account for ligand depletion)_refit.pzf
	07Saturation-Assay06_160807AHH_template.xls	Saturation assay #06	8/15/2007	hrER (FWA) Dietrich (sat 06)_08_16_2007 (No Adj for ligand depletion)_refit.pzf hrER (FWA) Dietrich (sat 06)_08_16_2007 (Account for ligand depletion)_refit.pzf
	01a_Saturation-Assay07_170408AHH_template.xls	Saturation assay #07(2)	4/22/2008	hrER (FWA) Dietrich (sat 07_2)_04_17_2008 (No Adj for ligand depletion)_refit.pzf hrER (FWA) Dietrich (sat 07_2)_04_17_2008 (Account for ligand depletion)_refit.pzf

Table 2. (Continued)

Protocol 1. FWA (above double line), Protocol 2. CERI (below double line).				
Lab	Excel File from Lab	Run Identification	Run Date	PRISM Template Filename
CeeTox	hrER (CERI) data entry 20081029, v25g.xls	CERI 20081029 saturation #1	10/29/2008	hrER (CERI) CEETOX_10_29_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_10_29_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 20081030, v25g.xls	CERI 20081030 saturation #2	10/30/2008	hrER (CERI) CEETOX_10_30_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_10_30_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 20081031, v25g.xls	CERI 20081031 saturation #3	10/31/2008	hrER (CERI) CEETOX_10_31_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_10_31_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 20090122, v25g.xls	CERI 20090122 saturation #4	1/22/2009	hrER (CERI) CEETOX_01_22_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_01_22_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
University of Missouri	hrER (CERI) data entry 2001, v25g.xls	2001	1/17/2009	hrER (CERI) Missouri (2001)_01_17_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2001)_01_17_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 2005, v25g.xls	2005	1/30/2009	hrER (CERI) Missouri (2005)_01_30_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2005)_01_30_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 2008, v25g.xls	2008	2/3/2009	hrER (CERI) Missouri (2008)_02_03_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2008)_02_03_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 2009, v25g.xls	2009	2/3/2009	hrER (CERI) Missouri (2009)_02_03_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2009)_02_03_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
Lovelace	hrER (CERI)-sat_20-Nov-08-v25f.xls	C-sat3	11/20/2008	hrER (CERI) Lovelace_11_20_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Lovelace_11_20_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI)-sat_21-Nov-08-v25f.xls	C-sat4	11/21/2008	hrER (CERI) Lovelace_11_21_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Lovelace_11_21_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI)-sat_25-Nov-08-v25f.xls	C-sat5	11/25/2008	hrER (CERI) Lovelace_11_25_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Lovelace_11_25_2008 (Account for ligand depletion)_Nov_2010_refit.pzf

Table 2. (Continued)

Protocol 1. FWA (above double line), Protocol 2. CERI (below double line).				
Lab	Excel File from Lab	Run Identification	Run Date	PRISM Template Filename
CeeTox	hrER (CERI) data entry 20081029, v25g.xls	CERI 20081029 saturation #1	10/29/2008	hrER (CERI) CEETOX_10_29_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_10_29_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 20081030, v25g.xls	CERI 20081030 saturation #2	10/30/2008	hrER (CERI) CEETOX_10_30_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_10_30_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 20081031, v25g.xls	CERI 20081031 saturation #3	10/31/2008	hrER (CERI) CEETOX_10_31_2008 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_10_31_2008 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 20090122, v25g.xls	CERI 20090122 saturation #4	1/22/2009	hrER (CERI) CEETOX_01_22_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) CEETOX_01_22_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
University of Missouri	hrER (CERI) data entry 2001, v25g.xls	2001	1/17/2009	hrER (CERI) Missouri (2001)_01_17_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2001)_01_17_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 2005, v25g.xls	2005	1/30/2009	hrER (CERI) Missouri (2005)_01_30_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2005)_01_30_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 2008, v25g.xls	2008	2/3/2009	hrER (CERI) Missouri (2008)_02_03_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2008)_02_03_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) data entry 2009, v25g.xls	2009	2/3/2009	hrER (CERI) Missouri (2009)_02_03_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) Missouri (2009)_02_03_2009 (Account for ligand depletion)_Nov_2010_refit.pzf

Table 2. (Continued)

Protocol 1. FWA (above double line), Protocol 2. CERI (below double line).				
Lab	Excel File from Lab	Run Identification	Run Date	PRISM Template Filename
Japan-CERI	hrER (CERI) saturation091214_01, v25i.xls	1	12/14/2009	hrER (CERI) JapanCERI_12_14_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) JapanCERI_12_14_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) saturation091215_02, v25i.xls	2	12/15/2009	hrER (CERI) JapanCERI_12_15_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) JapanCERI_12_15_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
	hrER (CERI) saturation091216_03, v25i.xls	3	12/16/2009	hrER (CERI) JapanCERI_12_16_2009 (No Adj for ligand depletion)_Nov_2010_refit.pzf hrER (CERI) JapanCERI_12_16_2009 (Account for ligand depletion)_Nov_2010_refit.pzf
Bayer HealthCare, Germany	AF 1-20-09 hrER (CERI) data entry templates, v25g satn only.xls	1	1/20/2009	hrER (CERI) Alexius Freyberger_01_20_2009 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (CERI) Alexius Freyberger_01_20_2009 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf
	AF 1-27-09 hrER (CERI) data entry templates, v25g satn only.xls	2	1/27/2009	hrER (CERI) Alexius Freyberger_01_27_2009 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (CERI) Alexius Freyberger_01_27_2009 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf
	AF 1-28-09 hrER (CERI) data entry templates, v25g satn only.xls	3	1/28/2009	hrER (CERI) Alexius Freyberger_01_28_2009 (No Adj for ligand depletion)_Reanalysis_Nov_2010_refit.pzf hrER (CERI) Alexius Freyberger_01_28_2009 (Account for ligand depletion)_Reanalysis_Nov_2010_refit.pzf

3.0 PRISM Model Fit

Two PRISM models were fitted to each test run of saturation radioligand binding data, one with adjustment for ligand depletion (based on Swillens'⁵ correction) and one without adjustment for ligand depletion.

3.1 Model Without Adjustment for Ligand Depletion

The radiolabeled ligand binds not only to receptor sites (specific binding) (SB), but also to nonspecific sites (nonspecific binding) (NSB). The NSB is modeled as a linear function of the radioligand concentration (a straight line). The SB is modeled as a hyperbolic function. The total binding (TB) at a given concentration of radioligand is assumed to be the sum of the specific and nonspecific binding. Total binding (TB) and nonspecific binding (NSB) are measured and curves are fitted to the measured values. The SB curve is obtained by subtracting the nonspecific binding curve from the TB curve. The saturation model equations are⁶

$$TB = \frac{B_{max} * X}{X + K_d} + NS * X + \text{background}$$
$$NSB = NS * X + \text{background}$$
$$SB = TB - NSB = \frac{B_{max} * X}{X + K_d}$$

Here, X is the total added radioligand in dpm. In the assumed absence of ligand, depletion-free radioligand is approximately equal to total added radioligand because just a small fraction of the total added is assumed to bind. TB, SB and NSB are expressed in dpm. K_d is the equilibrium dissociation constant, which corresponds to the total free ligand that results in SB to half the receptor sites at equilibrium and B_{max} is the maximum specific binding. K_d and B_{max} are expressed in dpm. NS is (Motulsky and Christopoulos (2003), page 203) "Fraction of the total binding that is nonspecific binding..." and is unitless. The conversion factors to change the units from nM (nmol/L) to dpm for the two parameters K_d and B_{max} depend on the total volume (mL) (Vol) in the well and the specific activity values (dpm/fmol) (SpecAct).

The second equation defines NSB to be a constant fraction (NS) of total added radioligand (X) plus a background. NS and "background" are the slope and the intercept of the straight line fit to the NSB data. "background" should be regarded as the extrapolation of the straight line down to zero-added radioligand and does not necessarily have physical meaning. By adding this parameter, the model fit may be improved, as the best straight line fit to the relationship between NSB and total added radioligand could have a y-intercept other than zero. If the intercept is greater than or equal to zero, it is sometimes interpreted as background noise. Motulsky and Christopoulos constrain the background term to be greater than or equal to 0 as a default, but there are data sets for which better fits are obtained for negative values of the "background" parameter.

⁵ Swillens, S. (1995). *Molecular Pharmacology*, **47**, 1197 - 1203

⁶ Motulsky, H.J. and Christopoulos, A. (2003). *Fitting models to biological data using linear and nonlinear regression. A practical guide to curve fitting*. GraphPad Software Inc., San Diego, CA, www.graphpad.com

The PRISM syntax for this model is:

```
KdDPM=KdnM * Vol * 1000 * SpecAct
; (nmol/L * mL * 0.001 L/mL * 1000000 fmol/nmol * dpm/fmol)
BmaxDPM=BmaxnM * Vol * 1000 * SpecAct
; (nmol/L * mL * 0.001 L/mL * 1000000 fmol/nmol * dpm/fmol)
spec=BmaxDPM*X/(X + KdDPM)
nonspec=NS*X+background
<A>Y=spec+nonspec
<B>Y=nonspec
```

3.2 Model with Adjustment for Ligand Depletion

The standard saturation binding model not accounting for ligand depletion (i.e., the model described above) is valid under the assumption that just a small fraction of the radioligand binds to receptors. This means that the concentration of free radioligand in solution is nearly the same as the concentration of radioligand added.

If the receptors are present in high concentration and/or have a high affinity for the ligand, then the assumption of absence of ligand depletion may not hold. A large fraction of the radioligand may bind to receptors, so the free concentration in solution may be somewhat lower than the total concentration added. That is, the free ligand concentration is depleted by binding to receptors. To account for the depletion, the amount total bound radioligand (expressed in dpm) is subtracted from the amount of total added radioligand (dpm) to determine the amount of radioligand (dpm) free in solution.

The model fit with adjustment for ligand depletion takes the following from (Motulsky and Christopoulos, 2003), based on Swillens (1995)

$$TB = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

$$NSB = \frac{NS * X}{NS + 1}$$

where,

$$a = -1 - NS$$

$$b = K_d + NS * K_d + X + 2 * X * NS + B_{max}$$

$$c = -1 * X * (NS * K_d + X * NS + B_{max})$$

In these equations, X is the total added radioligand in dpm. TB and NSB are also expressed in dpm. The interpretation for parameters B_{max} and K_d is same as in the model without adjustment for ligand depletion. The conversion factors for the unit changes from nM (nmol/L) to dpm for K_d and B_{max} are also the same as in the model without adjustment for ligand depletion. SB is calculated as the difference between TB and NSB.

The PRISM syntax for this model is:

```
KdDPM = KdnM * Vol * 10^3 * SpecAct
```

; (nmol/L * mL * 0.001 L/ml * 10⁶ fmol/nmol * dpm/fmol)

BmaxDPM = BmaxnM * Vol * 10³ * SpecAct

; (nmol/L * mL * 0.001 L/ml * 10⁶ fmol/nmol * dpm/fmol)

a = -1-NS

b = KdDPM + NS*KdDPM + X + 2*X*NS + BmaxDPM

c = -1*X*(NS*KdDPM + X*NS+BmaxDPM)

Total = (-b+sqrt(b*b-4*a*c))/(2*a) ;Y is in dpm

nonspec = NS*X/(NS+1);

<A>Y = Total

Y = nonspec

3.3 Scatchard Plot

Scatchard plots display SB versus the ratio of SB to the concentration of free radioligand. They are especially useful for showing changes in B_{max} or K_d. The Scatchard line corresponding to the binding curve fits is a linear regression line with slope -1/K_d, x-intercept at B_{max} and y-intercept at B_{max}/K_d. The SB is calculated by subtracting the averages of the NSB replicates from the total binding. The SB values are converted into M (moles/L) units in the EPA Excel data template. B_{max} and K_d are estimated from the saturation binding model fits, as discussed above. Scatchard plots can be associated with binding curve fits both with and without adjustment for ligand depletion. In the PRISM template, SB and B_{max} are expressed in nM. Thus when preparing the Scatchard plots, proper unit transformations are used (in this case nM=10⁻⁹ M).

3.4 Outlier Detection

PRISM includes a data-fitting option to automatically identify and remove outliers based on robust regression model fits. The automatic outlier-elimination option was employed in the saturation model fits with an adjustable parameter Q set to 1% as default. The Motulsky and Brown (2006)⁷ report based on simulation analyses that with Q set to 1% PRISM (falsely) detects outliers in 1% to 3% of simulated datasets that do not include any outliers. In simulated data contaminated with one or more outliers, of the data values identified as outliers, fewer than 1% were not actually outliers. The automatic outlier detection/model-fitting procedure available with the PRISM software, removes the detected outliers and fits to the remainder of the data with least-squares regression. This procedure reduces the influence on the model fits of any outliers that may be present in the data. Q can be set to different values. The larger Q is set to be, the greater will be the ability to detect true outliers, but also the greater will be the false discovery rate (i.e., there will be a larger proportion of false positives).

⁷ Motulsky, R.J. and Brown, R.E. (2006) Detecting outliers when fitting data with nonlinear regression - new method based on robust nonlinear regression and the false discovery rate. *BMC Bioinformatics*, 7:123

3.5 Model Constraints

SpecAct is specific radioactivity in dpm/fmol and Vol is reaction volume in mL. They must be fixed to constant values based on the experimental design. No constraint is set for the K_d and B_{max} parameters. NS is constrained to be greater than or equal to zero (and is shared by both the TB and the NSB model fits), as a negative slope is impossible.

In the model without adjustment for ligand depletion, “background” is set to be greater than zero (and is shared by both the TB and the NSB model fits). However, if this constraint leads to numerical difficulty in obtaining a model fit or it appears that the constraint wants to go negative, then the constraint for background to be greater than zero may be removed (by the user). “background” is still shared by both the TB and the NSB model fits.

4.0 Procedures to Conduct the PRISM Model Fits

The nature of the binding curves with and without adjustment for ligand depletion and the Scatchard plots were discussed in the section above. The fitting procedures are similar for the PRISM fits, with and without adjustment for ligand depletion. The procedure to fit the model with ligand depletion is discussed below. A similar procedure can be used to fit the model without adjustment for ligand depletion, with a few model-specific modifications. After the PRISM template is set up initially, the procedures for subsequent PRISM fits simplify considerably. This section discusses the fitting procedures both with and without a preexisting PRISM template.

The discussion includes a number of illustrations based on screen shots of PRISM displays made while carrying out the PRISM model fits. The figures in the body of the section are generally too small to permit details to be identified. Enlarged versions of these displays are included in Appendix ES at the end of this document. These are full-page displays and permit increased detail to be identified, but are still not fully legible. The electronic version of the report may provide a more legible version of the page displays. By clicking inside the electronic displays, they are selected by the reader and can be manually enlarged by dragging the corners to magnifications greater than those shown in Appendix ES.

It is also suggested that while reviewing this section, the PRISM model fitting procedures be carried out simultaneously. This will provide an improved understanding of the PRISM procedures discussed in this section.

4.1 Procedure for Setting up a PRISM Template with Adjustment for Ligand Depletion

There are three components for setting up a PRISM template: the first component is to specify the binding curves, the second component is to create a Scatchard plot, and the third component is to design customized layouts.

4.1.1 Binding Curve Fits

The saturation binding model with Swillens' correction for ligand depletion is fit to the total binding and the non-specific binding data using the PRISM syntax discussed above.

1. Under PRISM window

Select "New" under "Sheet", a window called "Welcome to GraphPad PRISM" will pop-up (this window may pop-up when you start a PRISM run)

Select "Start with an empty data table"

Under "XY" of "New table and graph", choose "Scatter plot" and check "Enter and plot a single y value for each point" for Y, and then click "Create". A data table window will open up (See screen shot below. Note that in the electronic version of the document the screen shot can be resized using the menu open-up by clicking the secondary button of the mouse or else by clicking the primary button and dragging the corners of the figure. Also Ctrl click on ["Screen 1"](#) will link to a large screen shot. Ctrl click on the underlined text ["Screen 1"](#) on the large screen page will link back to the original location in the body of the text. Similarly the same approach can be used for the other screen shots.

Screen 1

2. Copy the data (in dpm) from the EPA Excel template , for example, EPA template version 39⁸ (for future versions of the template, the column numbers may differ), and paste the data into the PRISM (Data table) such that (Screen 2)
 - i. Col X Total added (mean of replicates, column U in the EPA Excel data sheet)
 - ii. Col A Total binding fitted curve (Column V in the EPA Excel data sheet)
 - iii. Col B Non specific binding fitted curve (Column W in the EPA Excel data sheet)

⁸ See bottom of the "notes" worksheet in the EPA Excel data template for the version number.

Screen 2

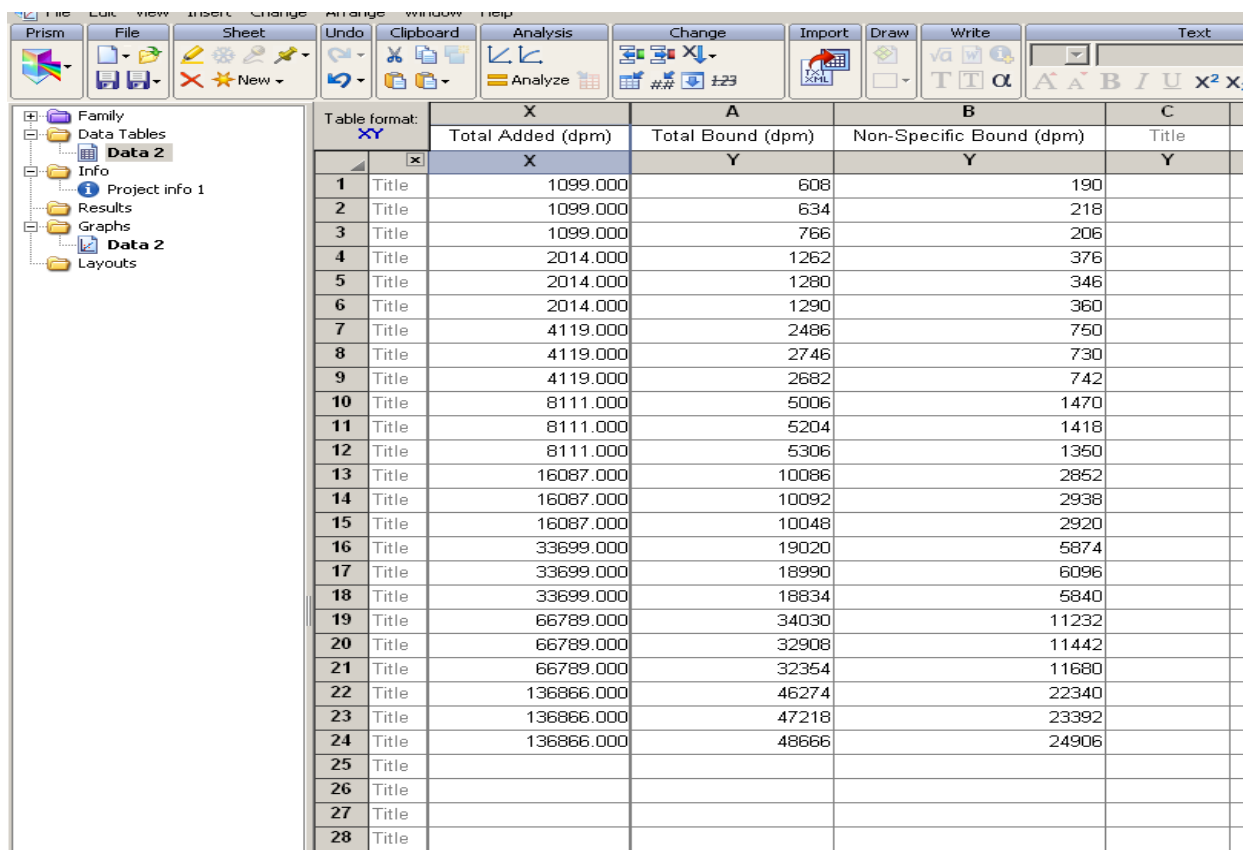


Table format:		X	A	B	C
		Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)	Title
		X	Y	Y	Y
1	Title	1099.000	608	190	
2	Title	1099.000	634	218	
3	Title	1099.000	766	206	
4	Title	2014.000	1262	376	
5	Title	2014.000	1280	346	
6	Title	2014.000	1290	360	
7	Title	4119.000	2486	750	
8	Title	4119.000	2746	730	
9	Title	4119.000	2682	742	
10	Title	8111.000	5006	1470	
11	Title	8111.000	5204	1418	
12	Title	8111.000	5306	1350	
13	Title	16087.000	10086	2852	
14	Title	16087.000	10092	2938	
15	Title	16087.000	10048	2920	
16	Title	33699.000	19020	5874	
17	Title	33699.000	18990	6096	
18	Title	33699.000	18834	5840	
19	Title	66789.000	34030	11232	
20	Title	66789.000	32908	11442	
21	Title	66789.000	32354	11680	
22	Title	136866.000	46274	22340	
23	Title	136866.000	47218	23392	
24	Title	136866.000	48666	24906	
25	Title				
26	Title				
27	Title				
28	Title				

Change the label for the data columns: Col X – “Total Added (dpm), Col A – “Total Bound (dpm)”, Col B – “Non-Specific Bound (dpm)”

- Use “Analyze” (in the Analysis toolbar at the top of the data sheet) on the data in the table sheet created above to run the binding curve fits.

Select “Nonlinear regression (curve fit)” under “XY Analyses”

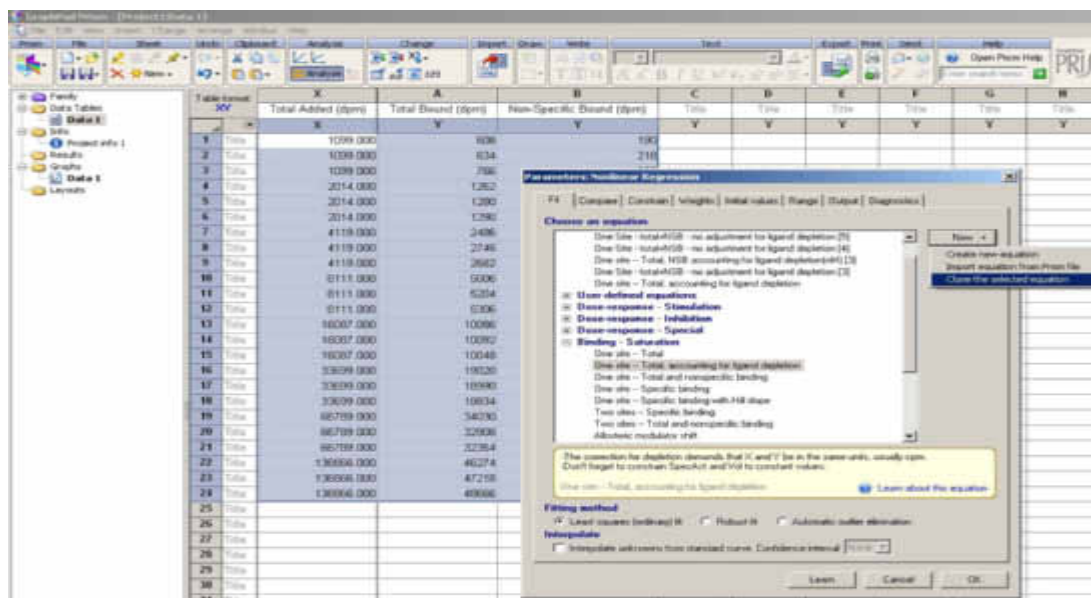
Click “Ok” under “Binding-Saturation”, select a built-in model “One site –Total, accounting for ligand depletion”

Click the “New” tab in the upper right. Select “Clone the selected equation”⁹ under “New” (see below)

The equation editing window will pop-up. ([Screen 3](#))

⁹ To make a copy of a previously defined equation available for editing.

Screen 3



Edit the equation (in the “Definition” block for syntax, and rename the equation under “Name” at the top of the User-Defined Equation box) according to the PRISM syntax above (Screen 4). Under the tab “Transforms to report”, define two new variables based on the model fit: $B_{\max}M$ (molar)¹⁰ and $B_{\max}/K_d$ (needed (after a further transformation) for the Scatchard plots).

Click “OK” (the equation will be saved as a “User-defined equation” and the new equation will be selected (highlighted)). (Screen 5)

Check “Automatic outlier elimination” (see PRISM window below (Screen 6))¹¹.

Click “Constraint”, enter values for Vol (in mL) and SpecAct (in dpm/fmol) using (transformations of) the constant values given in the EPA spreadsheet.

Select “No constraint” for K_d and $B_{\max}$ and “Shared, and must be greater than zero” for NS. (For the model without adjustment for ligand depletion, select “Shared, and must be greater than zero” or “Shared values for all data sets”¹² for Background parameter).

Click “Range”, check “Create a table of xy coordinates of xxx (e.g.,150) points that define the curve”. Click “Ok”.

Results sheets (with e.g. 150 rows) are then created within PRISM.

If anything is to be changed in the equation, then select the equation under “User defined equation” and use the edit option on the menu in the right. The above steps can be shortened if a previous user-defined equation is in place. In that case select the user-defined equation, review it, and revise it accordingly.

¹⁰ $B_{\max} M$ (molar) is not needed for any analyses or displays.. $B_{\max} nM$ (nMolar) is used in the Scatchard plots.

¹¹ Use the default setting of $Q=1\%$.

¹² This constraint would be used for the background parameter if the “background” value is permitted to be negative.

Screen 4

The screenshot shows the PRIM software interface. The main window displays a data table with columns X, A, B, C, D, E, F, G, H. The data is as follows:

	X	A	B	C	D	E	F	G	H
1	1099.000	608	190						
2	1099.000	634	218						
3	1099.000	700							
4	2014.000	12							
5	2014.000	12							
6	2014.000	12							
7	4119.000	24							
8	4119.000	27							
9	4119.000	28							
10	8111.000	62							
11	8111.000	62							
12	8111.000	53							
13	16087.000	100							
14	16087.000	100							
15	16087.000	100							
16	33699.000	190							
17	33699.000	188							
18	33699.000	198							
19	66709.000	340							
20	66709.000	325							
21	66709.000	322							
22	136866.000	460							
23	136866.000	472							
24	136866.000	458							
25									
26									
27									
28									
29									
30									
31									
32									

The 'User-defined Equation' dialog box is open, showing the following information:

- Name:** One site - Total, accounting for ligand depletion (S)
- Definition:**

$$B = \frac{[X] \cdot [Y]}{[X] + [Y] + \frac{[X]^2}{K_d} + \frac{[Y]^2}{K_d} + \frac{[X] \cdot [Y]}{K_{int}}}$$

$$B = \frac{[X] \cdot [Y]}{[X] + [Y] + \frac{[X]^2}{K_d} + \frac{[Y]^2}{K_d} + \frac{[X] \cdot [Y]}{K_{int}}}$$
- Description:**
 - X: Total ligand added in cpm
 - Y: Total binding in cpm
 - Specific: Specific radioactivity in cpm/fmol. You must enter this value.
 - Vol: Reaction volume in ml. You must enter this value.

Screen 5

The screenshot shows the PRIM software interface. The main window displays a data table with columns X, A, B, C, D, E, F, G, H, I, J, K, L, M. The data is as follows:

	X	A	B	C	D	E	F	G	H	I	J	K	L	M
1	1099.000	608	190											
2	1099.000	634	218											
3	1099.000	700												
4	2014.000	12												
5	2014.000	12												
6	2014.000	12												
7	4119.000	24												
8	4119.000	27												
9	4119.000	28												
10	8111.000	62												
11	8111.000	62												
12	8111.000	53												
13	16087.000	100												
14	16087.000	100												
15	16087.000	100												
16	33699.000	190												
17	33699.000	188												
18	33699.000	198												
19	66709.000	340												
20	66709.000	325												
21	66709.000	322												
22	136866.000	460												
23	136866.000	472												
24	136866.000	458												
25														
26														
27														
28														
29														
30														
31														
32														

The 'Choose an equation' dialog box is open, showing the following information:

- Equation:** One site - Total, accounting for ligand depletion (S)
- Definition:**

$$B = \frac{[X] \cdot [Y]}{[X] + [Y] + \frac{[X]^2}{K_d} + \frac{[Y]^2}{K_d} + \frac{[X] \cdot [Y]}{K_{int}}}$$
- Description:**
 - X: Total ligand added in cpm
 - Y: Total binding in cpm
 - Specific: Specific radioactivity in cpm/fmol. You must enter this value.
 - Vol: Reaction volume in ml. You must enter this value.

The 'User-defined Equation' dialog box is also open, showing the following information:

- Equation:** One site - Total, accounting for ligand depletion (S)
- Definition:**

$$B = \frac{[X] \cdot [Y]}{[X] + [Y] + \frac{[X]^2}{K_d} + \frac{[Y]^2}{K_d} + \frac{[X] \cdot [Y]}{K_{int}}}$$
- Description:**
 - X: Total ligand added in cpm
 - Y: Total binding in cpm
 - Specific: Specific radioactivity in cpm/fmol. You must enter this value.
 - Vol: Reaction volume in ml. You must enter this value.

Screen 6

The screenshot shows the GraphPad Prism software interface. On the left, a project tree shows 'Data 1' selected. The main window displays a data table with columns X, A, B, C, D, E, F, G, H, I, J. The table contains 31 rows of data. A dialog box titled 'Parameters: Nonlinear Regression' is open, showing a list of equations under 'Recently used' and 'User-defined equations'. The 'Fitting method' section has 'Least squares (ordinary)' selected. The 'Interpolate' section has 'Interpolate unknowns from standard curve, Confidence interval' checked.

Table format	X	A	B	C	D	E	F	G	H	I	J
XY	Y	Data Set A	Data Set B	Title	Title	Title	Title	Title	Title	Title	Title
1	Title	1107.5	309	129							
2	Title	1107.5	370	97							
3	Title	1107.5	272	86							
4	Title	2359.1	510	126							
5	Title	2359.1	535	103							
6	Title	2359.1	579	148							
7	Title	2883.3	677	147							
8	Title	2883.3	691	146							
9	Title	2883.3	765	130							
10	Title	3727.8	663	110							
11	Title	3727.8	736	120							
12	Title	3727.8	718	155							
13	Title	11209.0	1730	241							
14	Title	11209.0	1846	179							
15	Title	11209.0	1644	199							
16	Title	22179.4	2031	306							
17	Title	22179.4	2448	329							
18	Title	22179.4	2255	396							
19	Title	36665.5	2914	547							
20	Title	36665.5	2867	553							
21	Title	36665.5	2669	562							
22	Title	109971.5	2629	1252							
23	Title	109971.5	3842	1516							
24	Title	109971.5	4168	1221							
25	Title										
26	Title										
27	Title										
28	Title										
29	Title										
30	Title										
31	Title										

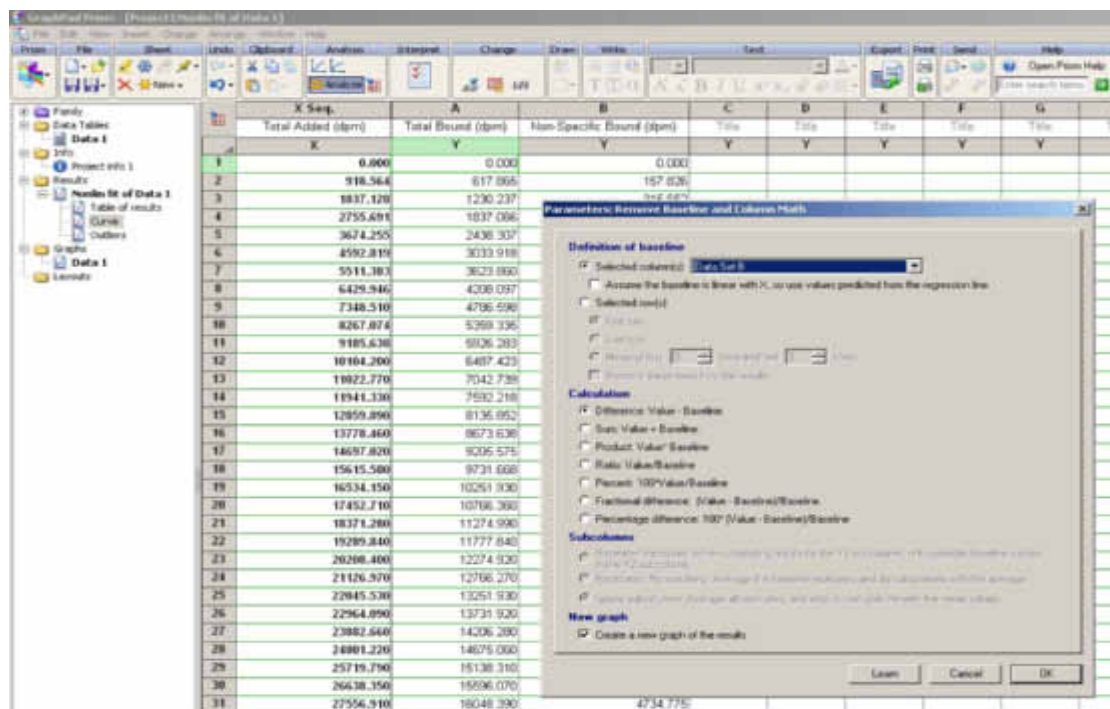
- To calculate the specific binding curve based on the total binding curve and the nonspecific binding curves .

Under “Analyze”, select “Transform, Normalize”
Select “Remove baseline and column math”

Under “Definition of baseline”, check “Selected column” and select Data Set B (i.e., column “Non-Specific Bound (dpm)”)

Under “Calculation”, check “Difference: Value-Baseline”. ([Screen 7](#))

Screen 7



5. This produces a results table named starting with “.....Baseline corrected of Nonlinear fit ...”. Open this table to change the label for Column A from “A-B” to “Specific Bound (dpm)”
6. Prepare a graph that includes the original data set (TB and NSB data), the three fitted curves for TB, NSB, Specific binding, and data outliers from both the TB curve fit and the NSB curve fit.

Open the graph, which is created in step 1 and 2,

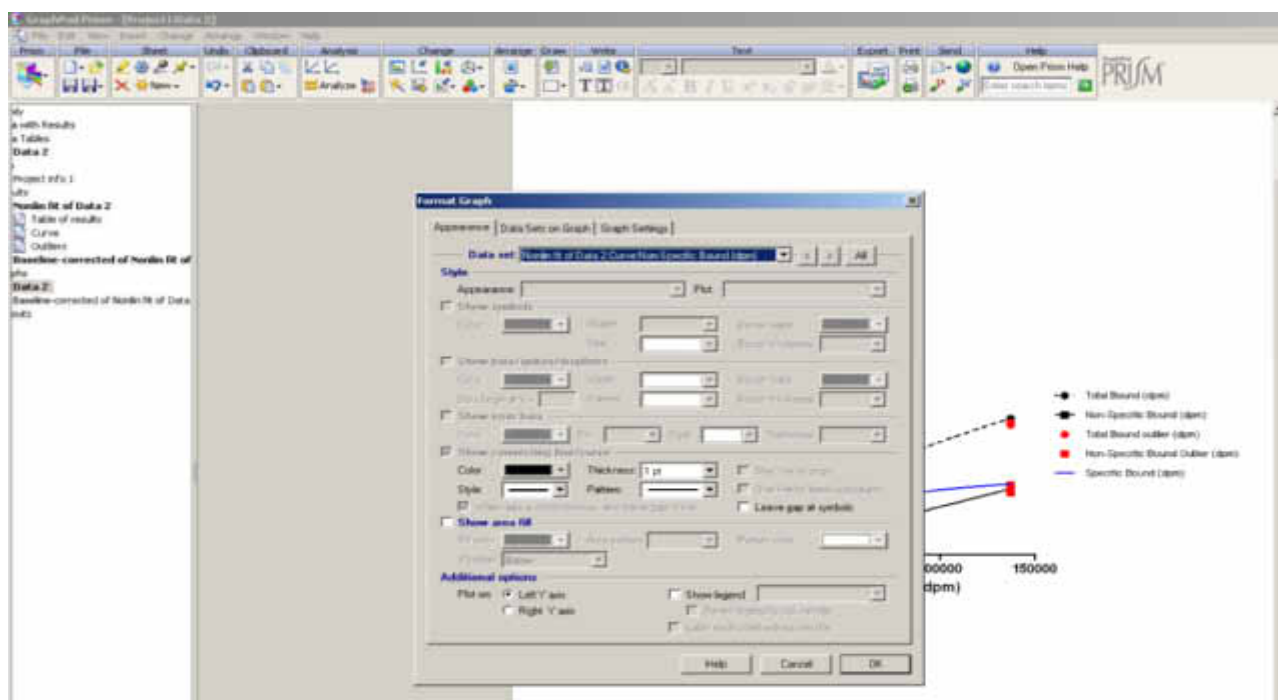
Double-click on the graph to pop-up the “Format Graph” window.

Select “Data sets on graph”.

Add all these data sets

Select “Appearance” to customize the appearance of each data set one by one, which includes specifying plot symbols, color and legends, setting the right ranges for the axes, and changing the labels on the graph by double-clicking each component of the graph for change. Use the right button of the mouse to open the graph editing menu for additional tools such as inserting titles, etc. (Screen 8)

Screen 8



4.1.2 Scatchard Plots

- Open the PRISM entry screen window.

Select "New" under "Sheet".

Select "Start with an empty data table" under "XY" of "New tables and graph".

Select "Table only No graph" "Enter and plot a single y value for each point", and then click "Create". A data table window is open now.

- Copy the data from the EPA Excel template and paste the data into the PRISM (Data table) such that

Col X Specific bound (M) (column Z in the Excel data sheet)

Col A Specific bound/free (Column AA in the Excel data sheet)

Change the labels for the above columns accordingly.

- Append two new rows to the data for creating the slope line in the Scatchard plots using values estimated by curve fits regression:

Row 1- (Col X) $X=0$, (Col B) $Y=B_{\max}/K_d$ and

Row 2- (Col X) $X=B_{\max}(M)$ and (Col B) $Y=0$

10. Transform the X column from “M” to “nM” and create a new data sheet with the transformed data sheet using “Analyze”.

Select “Transform” under “Transform, Normalize”

Select “Standard functions”

Select “Transform X values using $X=k*X$ ” enter $K=1e9$

Select “Create a new graph of the results”

Re-label X to “Specific bound (nM)” in the transformed data sheet. (Screen 9)

Screen 9

The screenshot shows the GraphPad Prism software interface. On the left, a project tree displays 'Data 3' as the active data set. The main window shows a data table with columns X, A, B, C, D, E, F, G, and H. The X column is labeled 'Specific Bound (M)' and contains values ranging from 1.127890e+011 to 1.041000e+009. The A column is labeled 'Specific Bound/Free' and contains values ranging from 0.820900 to 0.294800. The B column is labeled 'Data Set-B' and contains values ranging from 1.196600 to 0.294800. The C column is labeled 'Title' and contains values ranging from 1.196600 to 0.294800. The D column is labeled 'Title' and contains values ranging from 1.196600 to 0.294800. The E column is labeled 'Title' and contains values ranging from 1.196600 to 0.294800. The F column is labeled 'Title' and contains values ranging from 1.196600 to 0.294800. The G column is labeled 'Title' and contains values ranging from 1.196600 to 0.294800. The H column is labeled 'Title' and contains values ranging from 1.196600 to 0.294800. A 'Parameters: Transform' dialog box is open, showing the 'Function List' with 'Standard functions' selected. The 'Transform X values using' option is set to ' $X=k*X$ ' with $k=1.000000e+009$. The 'Transform Y values using' option is set to 'None'. The 'When it is impossible to transform a SD or SEM' option is set to 'Convert to an arithmetic SD or SEM'. The 'Replicates' section has 'Transform individual Y values' selected. The 'New graph' section has 'Create a new graph of the results' selected.

4.1.3 Layouts for Displaying Key Information

11. Create a layout for displaying the data table, outlier table, binding curve fit results and figures.

Under “Sheet”, “New”

Select “New layout”. OK

Drag or copy the figures into the new layout

Open the result table and copy and paste on the layout

Repeat the same process for the data table, outlier table

Resize and label each object, add extra titles, and move the objects around to customize the layout by single-clicking the objects or by using tools in the menu opened-up by clicking the right button of the mouse.

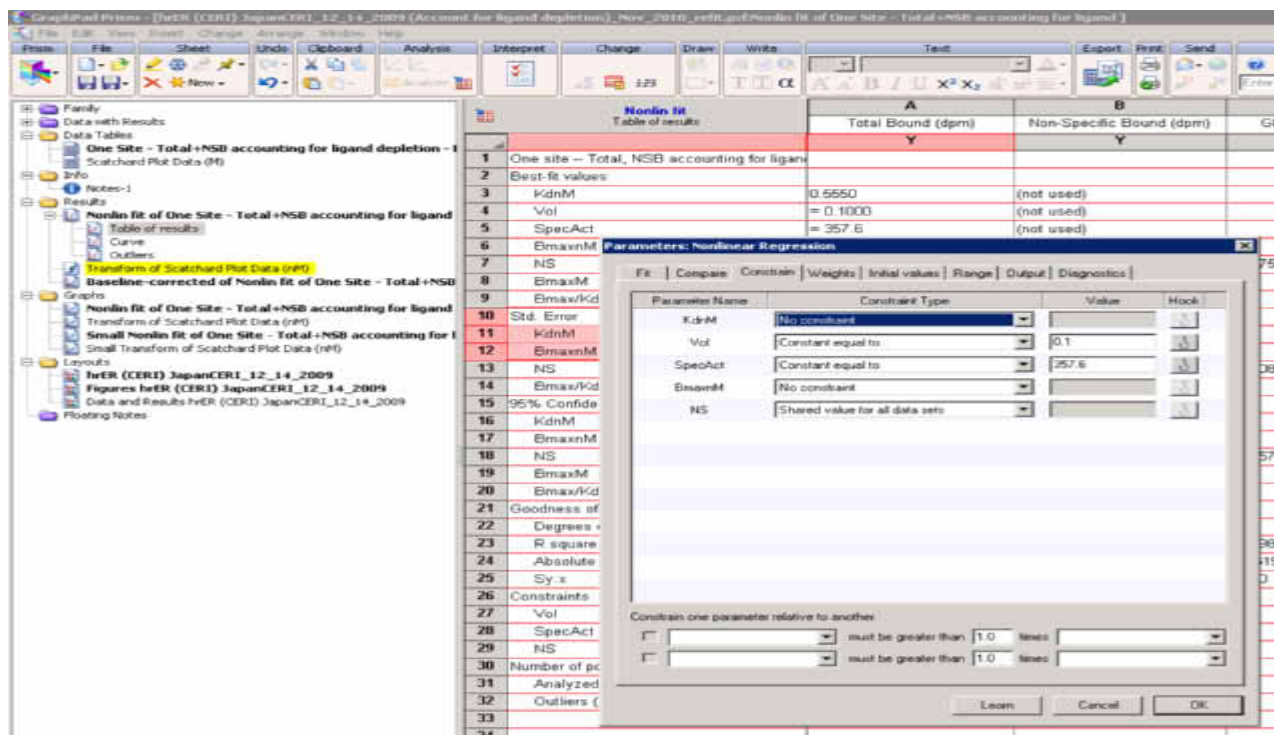
12. If there is too much information for one layout, another layout can be created by repeating step 12 or simply duplicate the existing layout and editing it to include the preferred information. This step can be repeated as many times as necessary.
13. Axes in the figures can be customized as discussed in Step 6, for example, one can specify uniform axes among all test runs and all participating laboratories. (Use the same axis endpoints case-by-case for each data set). If the data and fitted curves are not clearly displayed in the scales of the uniform axes, the figures can be plotted using different axes scales by duplicating the existing figure and then renaming and editing the duplicate figure with a customized scale for clear presentation. For the Scatchard plots, it is recommended to keep both the uniform scale and the customized scale plots in the same proportion for both x- and y-axes, so the slopes in the Scatchard plots are visually the same under both axes scales when the two plots are displayed side-by-side.
14. The uniformly scaled figures and the resized scaled figures can be both placed into a layout so the results and the data are clearly displayed. The procedure for placing an object is same as described in the above steps. (Click here to see an example layout). ([Example screen](#), Appendix ES))
15. Customize the PRISM template by changing the names for the data tables, figures and layouts etc.
16. The data tables, figures or layouts can be opened at any time for review and revision following the steps described above.

4.1.4 Procedure Starting with a Previously Constructed PRISM Template

The procedure is much simpler when starting with a previously constructed PRISM template. Usually a PRISM template is based on a PRISM fit to previous study data. Even though a previous PRISM template may not include all the elements for the new data, it may still be helpful to start with the template and then modify it for the new data. The steps are as follows:

17. Copy an existing PRISM fit as a template and rename the copied template.
18. Open the (raw) data table and replace the old data using the EPA Excel data file and make sure that the proper data are entered into the correct column(s) (see Step 2 in Section 4.1.1 for more detail).
19. Under the results section in PRISM, open the “Table of results” sheet
Double click the left top “Nonlin fit Table of results”, a model fit information window will pop-up and all information regarding the model fit will be available for review and change. Using the menu in the window, change the constraint values for “Vol” and “SpecAct” using the constants provided in the new data file. Make sure that the correct binding curve model equations are used. If the model in the old template differs from the new one, the equations should be edited. ([Screen 10](#))

Screen 10



20. Open the Scatchard data sheet and replace the old data with the new data. Also replace the Bmax(M) and Bmax/K_d using the estimates from the new model fit.
21. Change labels and titles in the graphs and layouts to reflect the new data identity, and make sure that the layouts are arranged in the preferred places and also make sure that the outlier tables are updated in the layout. If new information needs to be included in the layout, it can be brought into the layout by copy and paste.
22. Add any additional graph or layout as needed by duplicating a graph or layout and then editing the duplicate.
23. Change any title and label for any components within the PRISM layout as needed to reflect the new data information.

5.0 Summary and Discussion

All laboratories except the Dietrich Laboratory carried out both the FWA protocol assay and the CERI protocol assay and reported their assay results in the EPA format template. The Dietrich was contracted by ECVAM to perform only the FWA protocol assay, and this laboratory did not report its results in the EPA data template format. The data from the Dietrich Laboratory were reformatted and were input into the EPA format template as discussed in the “Study Data and Excel Template” section. The PRISM analyses discussed in the body of the report were applied to the data saved in the EPA Excel templates.

The PRISM analyses were based on a total of 20 test runs for the FWA protocol and 17 test runs for the CERI protocol (as listed in Table 2). The two PRISM one-site saturation binding models, one without adjustment for ligand depletion and one with adjustment for ligand depletion, were applied to each test run of saturation radioligand binding data. There were a total of 74 PRISM model fits.

For each PRISM model fit, the fit results, curve fit figures, Scatchard plots, the data and the outliers were presented and displayed in two layouts. One layout included all the figures with estimated results for K_d and B_{max} . The other layout included the data listing, the outlier listings (if outliers were present) and the model curve fit results. Separate uniform scales were used for the FWA protocol and the CERI protocol (Appendix A (FWA) and Appendix B (CERI)). If the data, the fitted curves, or the Scatchard slope was omitted, not fully displayed, or not clearly displayed in the figures due to the ranges of the uniform scales, new figures with customized scaling were created to better display the information. The customized figures were displayed side by side with the uniform scaled figures in the layouts.

The one-site binding model that does not adjust for ligand depletion includes a background term corresponding to dpm's when Total Added is zero. The default constraint for this parameter within the PRISM fit is that the background parameter is shared between the total bound fit and the non-specific bound fit and is greater than or equal to zero (by default in PRISM). In some test runs, the model did not converge or did not fit well and the background parameters were very close to zero and appeared to want to be negative. The constraint on the background parameter was revised so that the background parameter was shared between the total bound fit and the non-specific bound fit, but with no lower bound. The fits to these runs converged and the models fitted the data substantially better.

In some test runs, convergence was not attained with the default initial values. Modified initial values were specified (for example, using fitted parameter estimates based on a model accounting for ligand depletion as the initial values for a model not accounting for ligand depletion).

The background parameter in the model *without* adjustment for ligand depletion is not discussed in the PRISM manual (Motulsky and Christopoulos, 2003); however, it is included in a built-in one-site saturation binding model in the PRISM software. When this model was applied to the data, the background parameter was kept in the model. The background parameter is not in the model with adjustment for ligand depletion. This is not consistent. A model that adjusts for ligand depletion and that contains a background parameter can be derived with modest algebraic calculation.

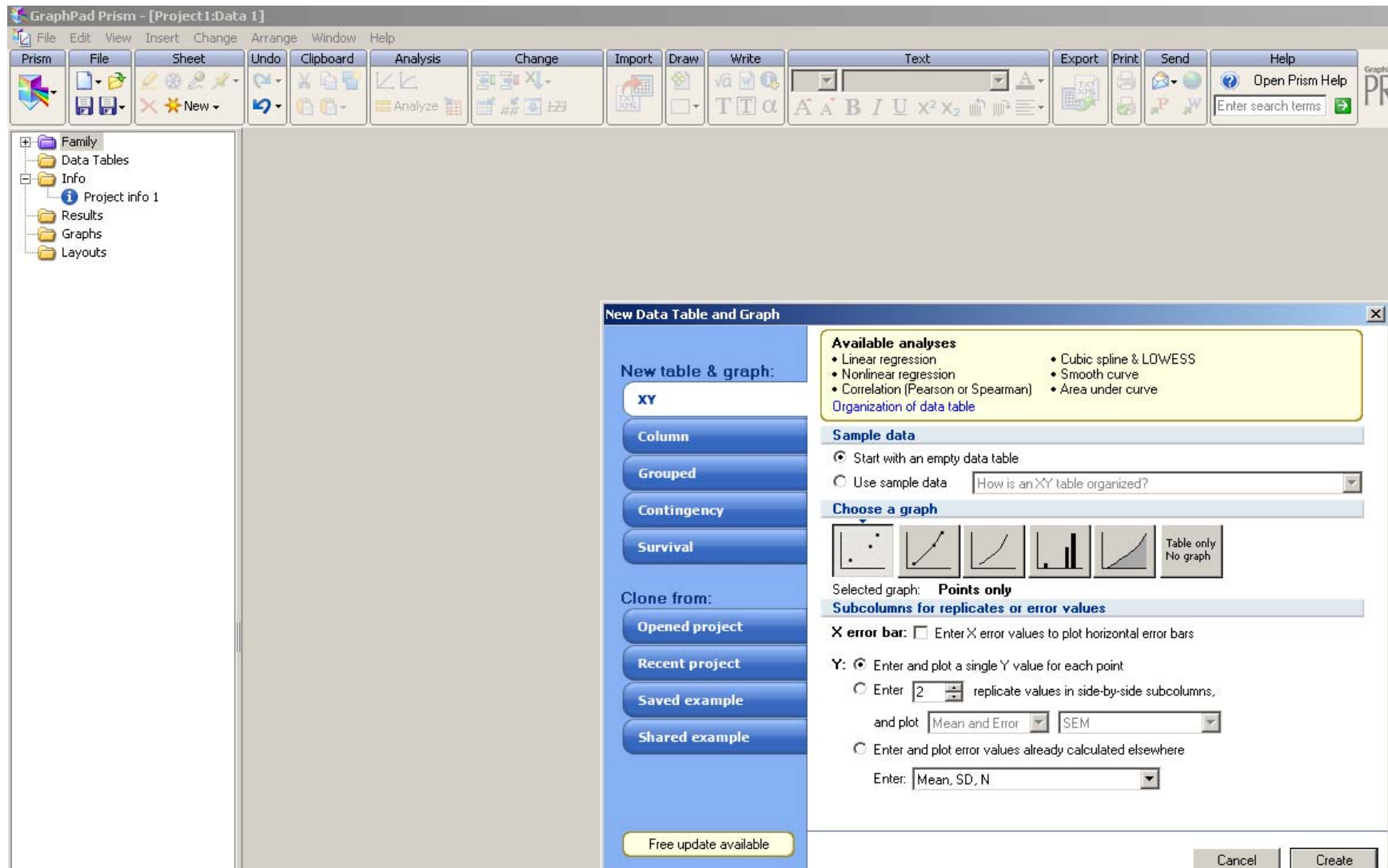
An important issue that arises from the inconsistent use of background is that some of the differences seen in the comparison of “accounting for ligand depletion” analyses to “without accounting for ligand depletion” analyses may be due to the difference in how background is treated rather than to how ligand depletion is dealt with. That is, changes in $B_{\max}$, for example, could be due to whether or not background was included in the NSB model rather than to whether ligand depletion was accounted for. It would be useful to develop such a ligand depletion model with background to compare to the other two models discussed in this analysis.

6.0 Acknowledgements

Shirlee Tan and Jim Kariya of EPA provided extensive task direction and valuable review comments on multiple versions of the report. David Houchens of Battelle and Alan Dixon of EPA provided timely support and encouragement throughout the performance of this task. Ying-Liang Chou adeptly assisted with Prism programming.

Appendix ES – Enlarged Screen Shots

[Screen 1](#) (Ctrl click the underlined text to take you back to the text)



Screen 2

GraphPad Prism - [Project1:Data 2]

File Edit View Insert Change Arrange Window Help

Prism File Sheet Undo Clipboard Analysis Change Import Draw Write Text

Family Data Tables Data 2 Info Project info 1 Results Graphs Data 2 Layouts

Table format: XY		X	A	B	C	D
		Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)	Title	Title
	X	Y	Y	Y	Y	Y
1	Title	1099.000	608	190		
2	Title	1099.000	634	218		
3	Title	1099.000	766	206		
4	Title	2014.000	1262	376		
5	Title	2014.000	1280	346		
6	Title	2014.000	1290	360		
7	Title	4119.000	2486	750		
8	Title	4119.000	2746	730		
9	Title	4119.000	2682	742		
10	Title	8111.000	5006	1470		
11	Title	8111.000	5204	1418		
12	Title	8111.000	5306	1350		
13	Title	16087.000	10086	2852		
14	Title	16087.000	10092	2938		
15	Title	16087.000	10048	2920		
16	Title	33699.000	19020	5874		
17	Title	33699.000	18990	6096		
18	Title	33699.000	18834	5840		
19	Title	66789.000	34030	11232		
20	Title	66789.000	32908	11442		
21	Title	66789.000	32354	11680		
22	Title	136866.000	46274	22340		
23	Title	136866.000	47218	23392		
24	Title	136866.000	48666	24906		
25	Title					

Screen 3

The screenshot displays the GraphPad Prism software interface. On the left, a project tree shows 'Data 1' selected. The main window contains a data table with the following structure:

Table format: XY		X	A	B	C	D	E	F	G	H
		Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)	Title	Title	Title	Title	Title	Title
		X	Y	Y	Y	Y	Y	Y	Y	Y
1	Title	1099.000	608	190						
2	Title	1099.000	634	218						
3	Title	1099.000	766							
4	Title	2014.000	1262							
5	Title	2014.000	1280							
6	Title	2014.000	1290							
7	Title	4119.000	2486							
8	Title	4119.000	2746							
9	Title	4119.000	2682							
10	Title	8111.000	5006							
11	Title	8111.000	5204							
12	Title	8111.000	5306							
13	Title	16087.000	10086							
14	Title	16087.000	10092							
15	Title	16087.000	10048							
16	Title	33699.000	19020							
17	Title	33699.000	18990							
18	Title	33699.000	18834							
19	Title	66789.000	34030							
20	Title	66789.000	32908							
21	Title	66789.000	32354							
22	Title	136866.000	46274							
23	Title	136866.000	47218							
24	Title	136866.000	48666							
25	Title									
26	Title									
27	Title									
28	Title									
29	Title									
30	Title									

The 'Parameters: Nonlinear Regression' dialog box is open, showing the 'Fit' tab. The 'Choose an equation' list includes several options, with 'One site -- Total, accounting for ligand depletion' selected. A yellow note box states: '-The correction for depletion demands that X and Y be in the same units, usually cpm. -Don't forget to constrain SpecAct and Vol to constant values.' The 'Fitting method' section shows 'Least squares (ordinary) fit' selected. The 'Interpolate' section has 'Interpolate unknowns from standard curve' checked and 'Confidence interval' set to 'None'.

Screen 4

The screenshot displays the Prism 7 software interface. On the left is a project tree with folders for Family, Data Tables, Info, Results, Graphs, and Layouts. The 'Data 1' table is selected. The main window shows a data table with columns X, A, B, C, D, E, F, and G. The 'Table format' is set to 'XY'. The data rows show values for X (ranging from 1099.000 to 136866.000) and A (ranging from 608 to 486). The 'User-defined Equation' dialog box is open, showing the equation:
$$Y = \frac{(-b + \sqrt{b^2 - 4ac})}{2a}$$
 where $a = -1 - NS$, $b = KdCPM + NS * KdCPM + X + 2 * X * NS + Bmax$, and $c = -1 * X * (NS * KdCPM + X * NS + Bmax)$. The dialog also includes a 'Tip' section with instructions on units and a 'Description' section explaining the variables X, Y, SpecAct, and Vol.

Table format: XY		X	A	B	C	D	E	F	G
		Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)	Title	Title	Title	Title	Title
	X	Y	Y	Y	Y	Y	Y	Y	Y
1	Title	1099.000	608	190					
2	Title	1099.000	634	218					
3	Title	1099.000	700	---					
4	Title	2014.000	12						
5	Title	2014.000	12						
6	Title	2014.000	12						
7	Title	4119.000	24						
8	Title	4119.000	27						
9	Title	4119.000	26						
10	Title	8111.000	50						
11	Title	8111.000	52						
12	Title	8111.000	53						
13	Title	16087.000	100						
14	Title	16087.000	100						
15	Title	16087.000	100						
16	Title	33699.000	190						
17	Title	33699.000	189						
18	Title	33699.000	186						
19	Title	66789.000	340						
20	Title	66789.000	329						
21	Title	66789.000	323						
22	Title	136866.000	462						
23	Title	136866.000	472						
24	Title	136866.000	486						
25	Title								
26	Title								
27	Title								
28	Title								
29	Title								
30	Title								

User-defined Equation

Equation Rules for Initial Values Default Constraints Transforms to Report

Name

One site -- Total, accounting for ligand depletion [3]

Definition Available functions

```

KdCPM=KdM * Vol * 1000 * SpecAct
; (nm/L * mL * 0.001 L/mL * 1000000 fmol/nmol * cpm/fmol)
a=-1-NS
b=KdCPM + NS*KdCPM + X + 2*X*NS + Bmax
c=-1*X*(NS*KdCPM + X*NS+Bmax)
Y=(-b+sqrt(b*b-4*a*c))/(2*a);Y is in cpm

```

Tip

-The correction for depletion demands that X and Y be in the same units, usually cpm.
-Don't forget to constrain SpecAct and Vol to constant values.

Description

X: Total ligand added in cpm
Y: Total binding in cpm
SpecAct: Specific radioactivity in cpm/fmol. You must enter this value.
Vol: Reaction volume in mL. You must enter this value.

The correction for depletion demands that X and Y be in the same units, usually cpm.

Help Cancel OK

Screen 5

The screenshot displays the GraphPad Prism software interface. On the left, a project tree shows 'Data 1' selected. The main window contains a data table with columns X, A, B, C, D, E, F, G, H, I, J, K, L. The 'Table format' is set to 'XY'. The data table contains the following values:

	X	A	B	C	D	E	F	G	H	I	J	K	L
	Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)	Title	Title	Title	Title	Title	Title	Title	Title	Title	Title
	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	Title	1099.000	608	190									
2	Title	1099.000	608	190									
3	Title	1099.000	608	190									
4	Title	2014.000	608	190									
5	Title	2014.000	608	190									
6	Title	2014.000	608	190									
7	Title	4119.000	608	190									
8	Title	4119.000	608	190									
9	Title	4119.000	608	190									
10	Title	8111.000	608	190									
11	Title	8111.000	608	190									
12	Title	8111.000	608	190									
13	Title	16087.000	608	190									
14	Title	16087.000	608	190									
15	Title	16087.000	608	190									
16	Title	33699.000	608	190									
17	Title	33699.000	608	190									
18	Title	33699.000	608	190									
19	Title	66789.000	608	190									
20	Title	66789.000	608	190									
21	Title	66789.000	608	190									
22	Title	136866.000	608	190									
23	Title	136866.000	608	190									
24	Title	136866.000	608	190									
25	Title												
26	Title												
27	Title												
28	Title												
29	Title												
30	Title												
31	Title												

Two dialog boxes are open over the data table:

Parameters: Nonlinear Regression

- Fit** tab selected.
- Choose an equation** section:
 - One site -- Total, NSB accounting for ligand depletion (nM) [2]
 - One Site - total+NSB - no adjustment for ligand depletion [5]
 - One Site - total+NSB - no adjustment for ligand depletion [4]
 - One Site - total+NSB - no adjustment for ligand depletion [3]
 - One site -- Total, accounting for ligand depletion
 - User-defined equations**
 - Dose-response - Stimulation**
 - Dose-response - Inhibition**
 - Dose-response - Special**
 - Binding - Saturation**
 - One site -- Total
 - One site -- Total, accounting for ligand depletion
 - One site -- Total and nonspecific binding
 - One site -- Specific binding
 - One site -- Specific binding with Hill slope
 - Two sites -- Specific binding
 - Two sites -- Total and nonspecific binding
 - Allosteric modulator shift
- Fitting method** section:
 - ☐ Least squares (ordinary) fit
 - ☐ Robust fit
 - ☒ Automatic outlier elimination
- Interpolate** section:
 - ☐ Interpolate unknowns from standard curve. Confidence interval:

User-defined Equation

- Equation** tab selected.
- Report transforms of best-fit parameters (with 95% CI)** section:
 - Examples: EC50, X50
 - Examples: 10*LogEC50, X[50] (X when Y=50)
 - CI method:
- Report these combinations of best-fit parameters (with 95% CI)** section:
 - = P1 = P2 =
 - = P1 = P2 =
 - = P1 = P2 =
 - = P1 = P2 =

Screen 6

Prism File Edit View Insert Change Arrange Window Help

Prism File Sheet Undo Clipboard Analysis Change Import Draw Write Text Export Print Send Help

Family Data Tables Data 1 Info Project info 1 Results Graphs Data 1 Layouts

Table format: XY		X	A	B	C	D	E	F	G	H	I
		X Title	Data Set-A	Data Set-B	Title	Title	Title	Title	Title	Title	Title
		X	Y	Y	Y	Y	Y	Y	Y	Y	Y
1	Title	1107.5	309	129							
2	Title	1107.5	370	97							
3	Title	1107.5	272	85							
4	Title	2359.1	510	126							
5	Title	2359.1	535	103							
6	Title	2359.1	579	148							
7	Title	2883.3	677	147							
8	Title	2883.3	591	146							
9	Title	2883.3	765	138							
10	Title	3727.8	653	110							
11	Title	3727.8	736	120							
12	Title	3727.8	718	155							
13	Title	11209.0	1730	241							
14	Title	11209.0	1846	179							
15	Title	11209.0	1644	199							
16	Title	22179.4	2031	326							
17	Title	22179.4	2448	329							
18	Title	22179.4	2255	396							
19	Title	36665.5	2914	547							
20	Title	36665.5	2667	553							
21	Title	36665.5	2559	552							
22	Title	109971.5	3528	1252							
23	Title	109971.5	3842	1516							
24	Title	109971.5	4168	1221							
25	Title										
26	Title										
27	Title										
28	Title										
29	Title										
30	Title										

Parameters: Nonlinear Regression

Fit Compare Constrain Weights Initial values Range Output Diagnostics

Choose an equation

Recently used

- One site -- Total, NSB accounting for ligand depletion(nM) [2]
- One Site - total+NSB - no adjustment for ligand depletion [5]
- One Site - total+NSB - no adjustment for ligand depletion [4]
- One site -- Total, NSB accounting for ligand depletion(nM) [3]
- One Site - total+NSB - no adjustment for ligand depletion [3]
- One site -- Total, accounting for ligand depletion

User-defined equations

- logIC50
- One site -- Total, NSB accounting for ligand depletion(nM) [2]
- One site -- Total, NSB accounting for ligand depletion(nM) [3]
- One Site - total+NSB - no adjustment for ligand depletion [3]
- One Site - total+NSB - no adjustment for ligand depletion [4]
- One Site - total+NSB - no adjustment for ligand depletion [5]
- One site -- Total, accounting for ligand depletion [2]
- One site -- Specific binding with Hill slope [2]
- One site -- Total, NSB accounting for ligand depletion(nM) [4]
- One site -- Total, accounting for ligand depletion [0]

-The correction for depletion demands that X and Y be in the same units, usually cpm (or DPM).
-Don't forget to constrain SpecAct and Vol to constant values.

One site -- Total, NSB accounting for ligand depletion{

Fitting method

☐ Least squares (ordinary) fit ☐ Robust fit ☒ Automatic outlier elimination

Interpolate

☐ Interpolate unknowns from standard curve. Confidence interval None

Learn Cancel OK

Screen 7

GraphPad Prism - [Project1:Nonlin fit of Data 1]

File Edit View Insert Change Arrange Window Help

Prism File Sheet Undo Clipboard Analysis Interpret Change Draw Write Text Export Print Send Help

Family Data Tables Data 1 Info Project info 1 Results Nonlin fit of Data 1 Table of results Curve Outliers Graphs Data 1 Layouts

	X Seq.	A	B	C	D	E	F	G
	Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)	Title	Title	Title	Title	Title
	X	Y	Y	Y	Y	Y	Y	Y
1	0.000	0.000	0.000					
2	918.564	617.865	157.826					
3	1837.128	1230.237	215.652					
4	2755.691	1837.066						
5	3674.255	2438.307						
6	4592.819	3033.918						
7	5511.383	3623.860						
8	6429.946	4208.097						
9	7348.510	4786.598						
10	8267.074	5359.335						
11	9185.638	5926.283						
12	10104.200	6487.423						
13	11022.770	7042.739						
14	11941.330	7592.218						
15	12859.890	8135.852						
16	13778.460	8673.638						
17	14697.020	9205.575						
18	15615.580	9731.668						
19	16534.150	10251.930						
20	17452.710	10766.360						
21	18371.280	11274.990						
22	19289.840	11777.840						
23	20208.400	12274.920						
24	21126.970	12766.270						
25	22045.530	13251.930						
26	22964.090	13731.920						
27	23882.660	14206.280						
28	24801.220	14675.060						
29	25719.790	15138.310						
30	26638.350	15596.070						

Parameters: Remove Baseline and Column Math

Definition of baseline

- ☒ Selected column(s) Data Set B
 - ☐ Assume the baseline is linear with X, so use values predicted from the regression line.
- ☐ Selected row(s)
 - ☒ First row
 - ☐ Last row
 - ☐ Mean of first 3 rows and last 3 rows
 - ☐ Remove these rows from the results

Calculation

- ☒ Difference: Value - Baseline
- ☐ Sum: Value + Baseline
- ☐ Product: Value* Baseline
- ☐ Ratio: Value/Baseline
- ☐ Percent: 100*Value/Baseline
- ☐ Fractional difference: (Value - Baseline)/Baseline
- ☐ Percentage difference: 100* (Value - Baseline)/Baseline

Subcolumns

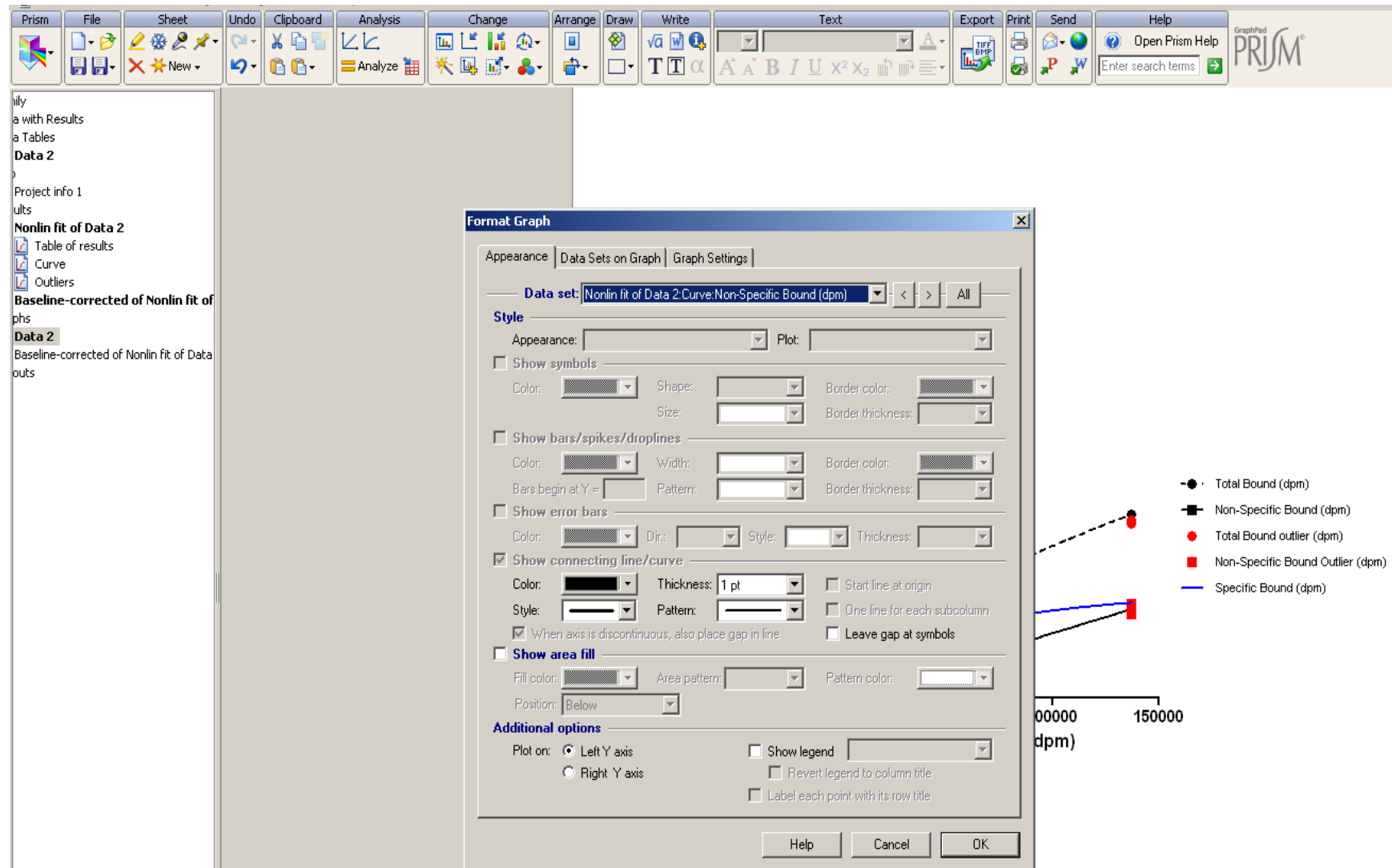
- ☐ Repeated measures: When computing results for the Y2 subcolumn, only consider baseline values in the Y2 subcolumn.
- ☐ Replicates: No matching. Average the baseline replicates and do calculations with the average.
- ☒ Ignore subcolumns: Average all replicates, and only do calculations with the mean values.

New graph

- ☒ Create a new graph of the results

Learn Cancel OK

Screen 8



Screen 9

The screenshot displays the GraphPad Prism software interface. On the left is a project tree showing a family of data tables with 'Data 3' selected. The main window shows a data table with columns X, A, B, C, D, E, F, G, and H. The 'Table format' is set to 'XY'. The data in column X represents specific bound concentrations, and column A represents specific bound/free ratios. The 'Parameters: Transform' dialog box is open, showing options for transforming the data. The 'Function List' has 'Standard functions' selected. The 'Transform X values using' option is checked, with the formula $X=K \cdot X$ and $K=1.000000e$. The 'Transform Y values using' option is unchecked. The 'When it is impossible to transform a SD or SEM' section has 'Erase SD or SEM' selected. The 'Replicates' section has 'Transform individual Y values' selected. The 'New graph' section has 'Create a new graph of the results' checked.

		X	A	B	C	D	E	F	G	H
		Specific Bound (M)	Specific Bound/Free	Data Set-B	Title	Title	Title	Title	Title	Title
		X	Y	Y	Y	Y	Y	Y	Y	Y
1	Title	1.127890e-011	0.820900							
2	Title	1.200600e-011	0.922600							
3	Title	1.569720e-011	1.684000							
4	Title	2.520510e-011	1.198600							
5	Title	2.570840e-011	1.252500							
6	Title	2.598810e-011	1.283600							
7	Title	4.880690e-011	1.069000							
8	Title	5.607760e-011	1.460900							
9	Title	5.428780e-011	1.351300							
10	Title	1.004850e-010	1.157400							
11	Title	1.060220e-010	1.304400							
12	Title	1.088740e-010	1.388200							
13	Title	2.008580e-010	1.196800							
14	Title	2.010250e-010	1.199000							
15	Title	1.997950e-010	1.183000							
16	Title	3.658650e-010	0.891300							
17	Title	3.650260e-010	0.887500							
18	Title	3.606640e-010	0.867700							
19	Title	6.313940e-010	0.689200							
20	Title	6.000190e-010	0.633300							
21	Title	5.845260e-010	0.607000							
22	Title	6.355700e-010	0.250900							
23	Title	6.619690e-010	0.264100							
24	Title	7.024610e-010	0.284800							
25	Title	0.000000								
26	Title	1.041000e-009								
27	Title									
28	Title									
29	Title									
30	Title									

Parameters: Transform

Function List

- ☒ Standard functions
- ☐ Pharmacology and biochemistry transforms
- ☐ User-defined X functions
- ☐ User-defined Y functions

☐ Interchange X and Y (then transform as specified below).

☒ Transform X values using $X=K \cdot X$ K= 1.000000e

☐ Transform Y values using $Y=X \cdot Y$

☒ Same K for all data sets. K =

☐ Different K for each data set

Data Specific Bound/Free K =

When it is impossible to transform a SD or SEM

- ☒ Erase SD or SEM.
- ☐ Convert to an asymmetric 95% confidence interval.

Replicates

- ☒ Transform individual Y values
- ☐ Transform the average of replicates

New graph

- ☒ Create a new graph of the results

Learn Cancel OK

Screen 10

GraphPad Prism - [hrER (CERI) JapanCERI_12_14_2009 (Account for ligand depletion)_Nov_2010_refit.pzf:Nonlin fit of One Site - Total+NSB accounting for ligand]

File Edit View Insert Change Arrange Window Help

Prism File Sheet Undo Clipboard Analysis Interpret Change Draw Write Text Export Print Send

Family
Data with Results
Data Tables
One Site - Total+NSB accounting for ligand depletion - I
Scatchard Plot Data (M)
Info
Notes-1
Results
Nonlin fit of One Site - Total+NSB accounting for ligand
Table of results
Curve
Outliers
Transform of Scatchard Plot Data (nM)
Baseline-corrected of Nonlin fit of One Site - Total+NSB
Graphs
Nonlin fit of One Site - Total+NSB accounting for ligand
Transform of Scatchard Plot Data (nM)
Small Nonlin fit of One Site - Total+NSB accounting for I
Small Transform of Scatchard Plot Data (nM)
Layouts
hrER (CERI) JapanCERI_12_14_2009
Figures hrER (CERI) JapanCERI_12_14_2009
Data and Results hrER (CERI) JapanCERI_12_14_2009
Floating Notes

Nonlin fit
Table of results

	A	B
	Total Bound (dpm)	Non-Specific Bound (dpm)
	Y	Y
1 One site -- Total, NSB accounting for ligand		
2 Best-fit values		
3 KdnM	0.5550	(not used)
4 Vol	= 0.1000	(not used)
5 SpecAct	= 357.6	(not used)

Parameters: Nonlinear Regression

Fit Compare Constrain Weights Initial values Range Output Diagnostics

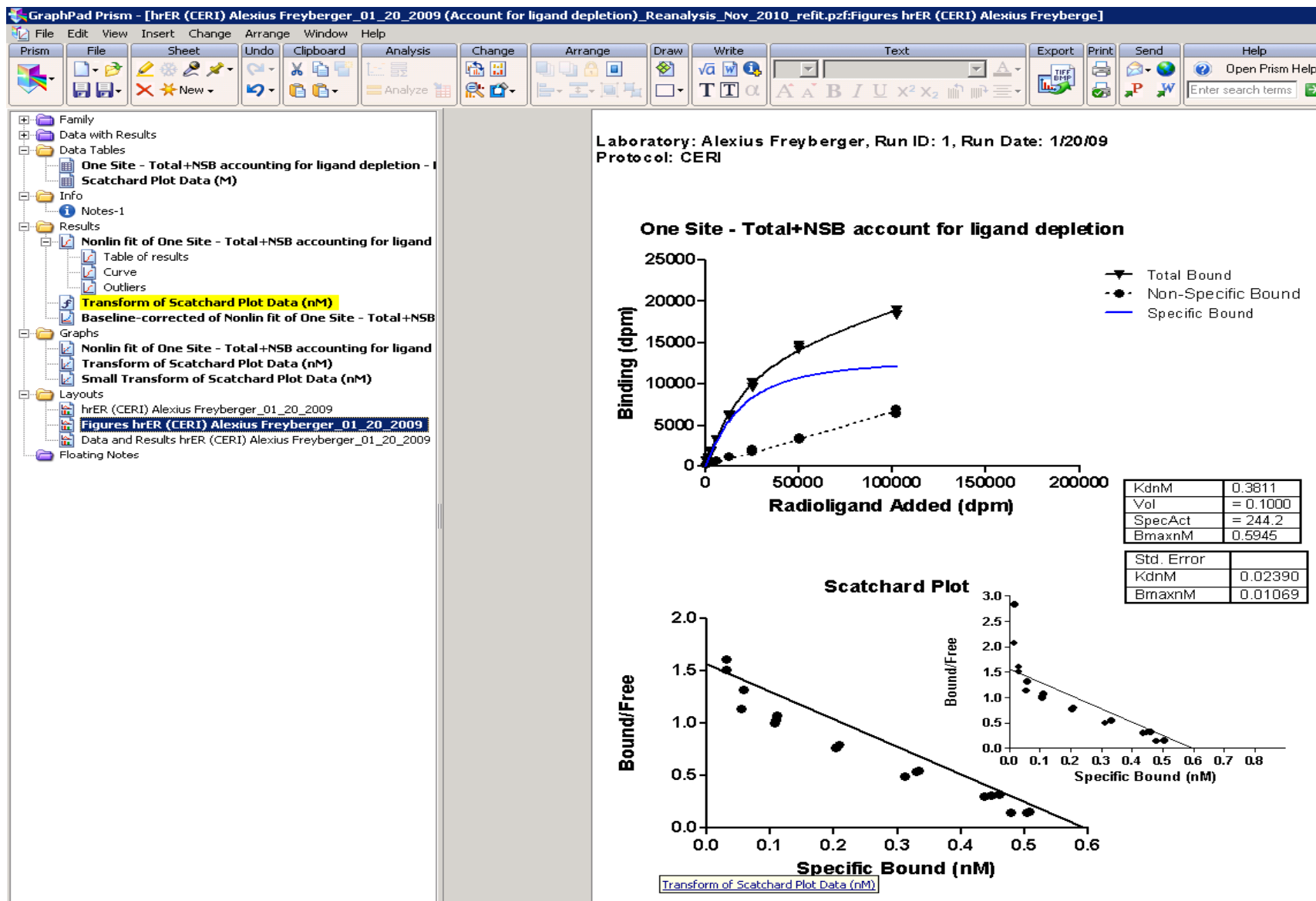
Parameter Name	Constraint Type	Value	Hook
KdnM	No constraint		
Vol	Constant equal to	0.1	
SpecAct	Constant equal to	357.6	
BmaxnM	No constraint		
NS	Shared value for all data sets		

Constrain one parameter relative to another

☐ must be greater than 1.0 times

☐ must be greater than 1.0 times

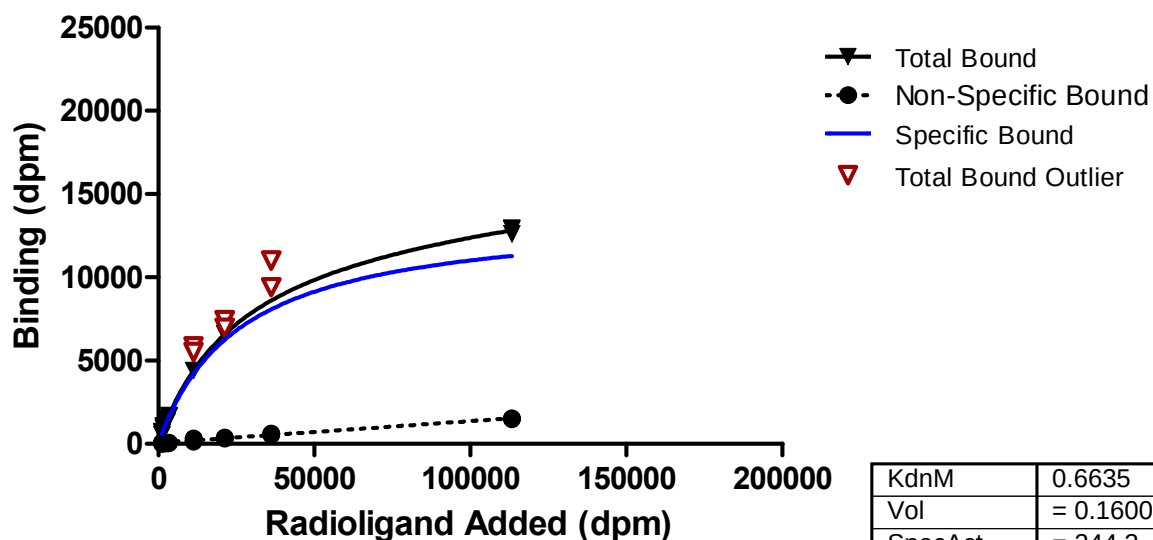
Learn Cancel OK



Appendix A – PRISM Model Fits and Scatchard Plots for the FWA Protocol

Laboratory: CEETOX, Run ID: 20080724 saturation 1, Run Date: 7/24/08
Protocol: FWA

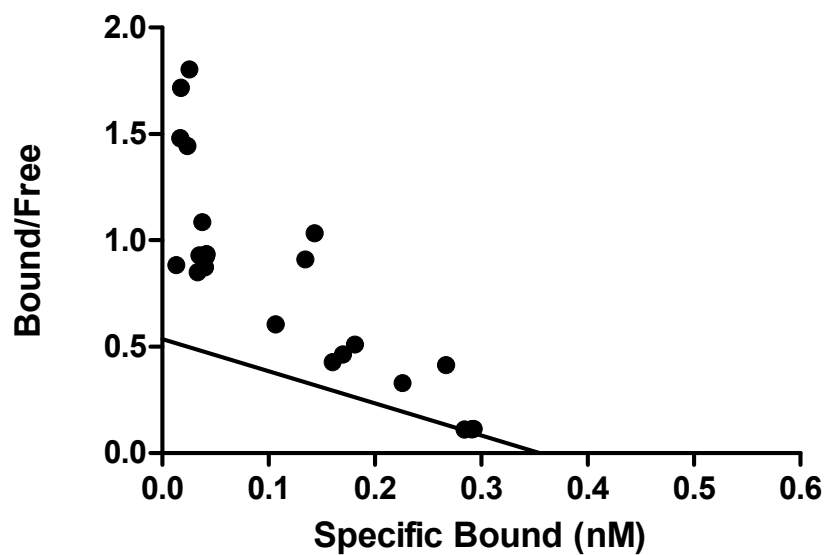
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.6635
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3550

Std. Error	
KdnM	0.01736
BmaxnM	0.003240

Scatchard Plot



Laboratory: CEETOX, Run ID: 20080724 saturation 1, Run Date: 7/24/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1136.000	696	86
1136.000	734	29
1136.000	557	19
1592.000	1080	29
1592.000	1037	34
1592.000	955	43
2861.000	1397	34
2861.000	1507	29
2861.000	1334	48
3422.667	1690	67
3422.667	1632	72
3422.667	1680	62
11268.330	5851	317
11268.330	5501	293
11268.330	4406	144
21279.670	7430	379
21279.670	6979	336
21279.670	6610	326
36211.670	11011	614
36211.670	11002	523
36211.670	9408	605
113265.000	12955	1541
113265.000	12624	1488
113265.000	12893	1526

Outliers

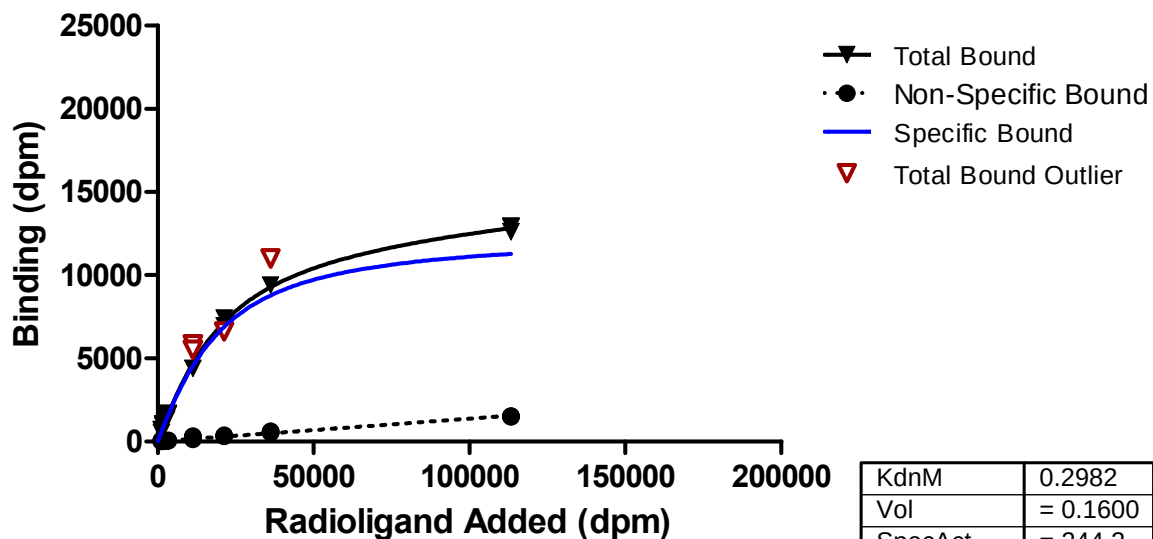
Total Added (dpm)	Total Bound (dpm)
11268.330	5851.000
11268.330	5501.000
21279.670	7430.000
21279.670	6979.000
36211.670	11011.000
36211.670	11002.000
36211.670	9408.000

Nonlinear Fit Results

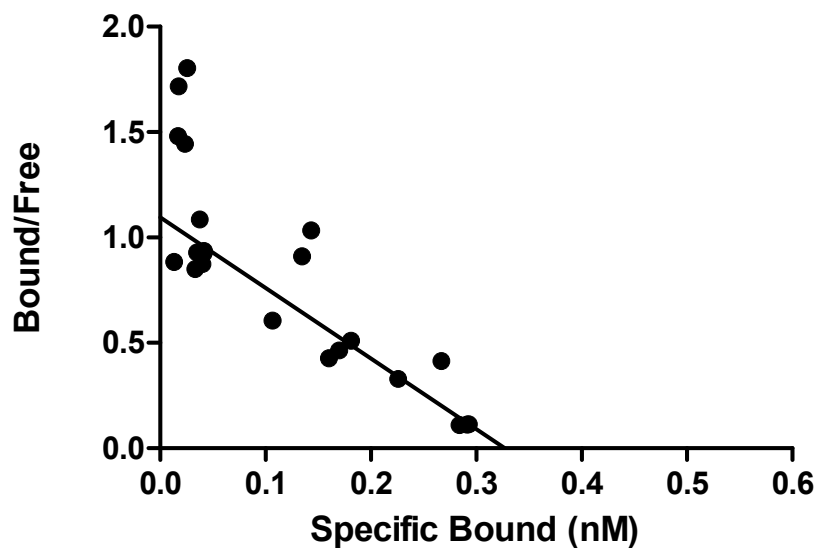
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.6635	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3550	(not used)	
NS	0.01310	0.01310	0.01310
background	54.35	54.35	54.35
kdM	6.635e-010	(not used)	
BmaxM	3.550e-010	(not used)	
Bmax/Kd	0.5351	(not used)	
Std. Error			
KdM	0.01736	(not used)	
BmaxM	0.003240	(not used)	
NS	0.0004624	0.0004624	0.0004624
background	18.44	18.44	18.44
Bmax/Kd	0.01035	(not used)	
95% Confidence Intervals			
KdM	0.6283 to 0.6986	(not used)	
BmaxM	0.3484 to 0.3616	(not used)	
NS	0.01217 to 0.01404	0.01217 to 0.01404	0.01217 to 0.01404
background	16.97 to 91.73	16.97 to 91.73	16.97 to 91.73
kdM	6.283e-010 to 6.986e-010	(not used)	
BmaxM	3.484e-010 to 3.616e-010	(not used)	
Bmax/Kd	0.5141 to 0.5560	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9994	0.9881	0.9994
Absolute Sum of Squares	187125	64495	251620
Sy.x			82.47
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	17	24	
Outliers (excluded, Q=1.0%)	7	0	

Laboratory: CEETOX, Run ID: 20080724 saturation 1, Run Date: 7/24/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: CEETOX, Run ID: 20080724 saturation 1, Run Date: 7/24/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1136.000	696	86
1136.000	734	29
1136.000	557	19
1592.000	1080	29
1592.000	1037	34
1592.000	955	43
2861.000	1397	34
2861.000	1507	29
2861.000	1334	48
3422.667	1690	67
3422.667	1632	72
3422.667	1680	62
11268.330	5851	317
11268.330	5501	293
11268.330	4406	144
21279.670	7430	379
21279.670	6979	336
21279.670	6610	326
36211.670	11011	614
36211.670	11002	523
36211.670	9408	605
113265.000	12955	1541
113265.000	12624	1488
113265.000	12893	1526

Outliers

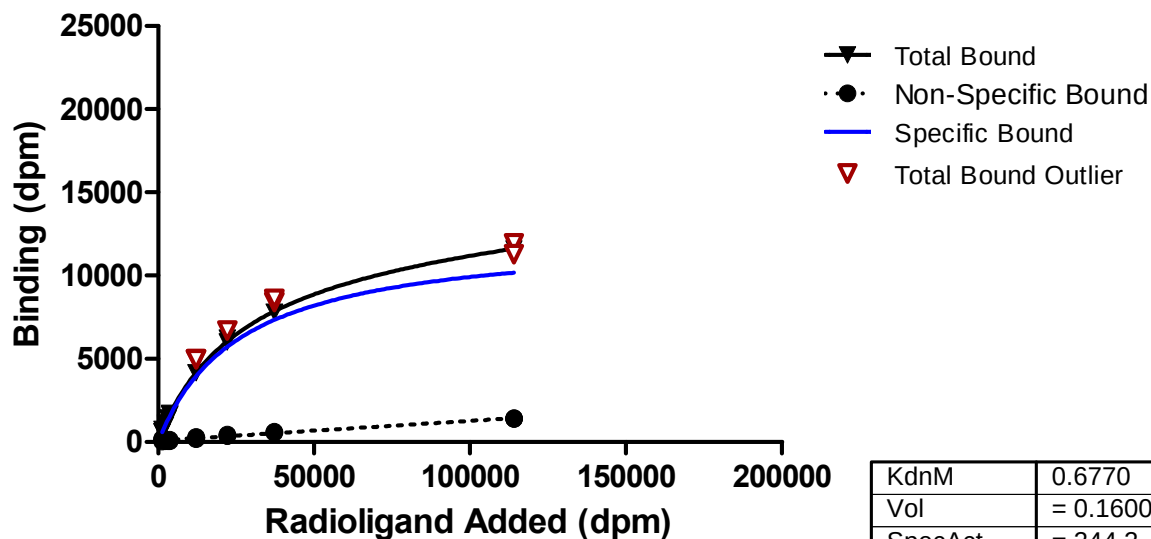
Total Added (dpm)	Total Bound (dpm)
11268.330	5851.000
11268.330	5501.000
21279.670	6610.000
36211.670	11011.000
36211.670	11002.000

Nonlinear Fit Results

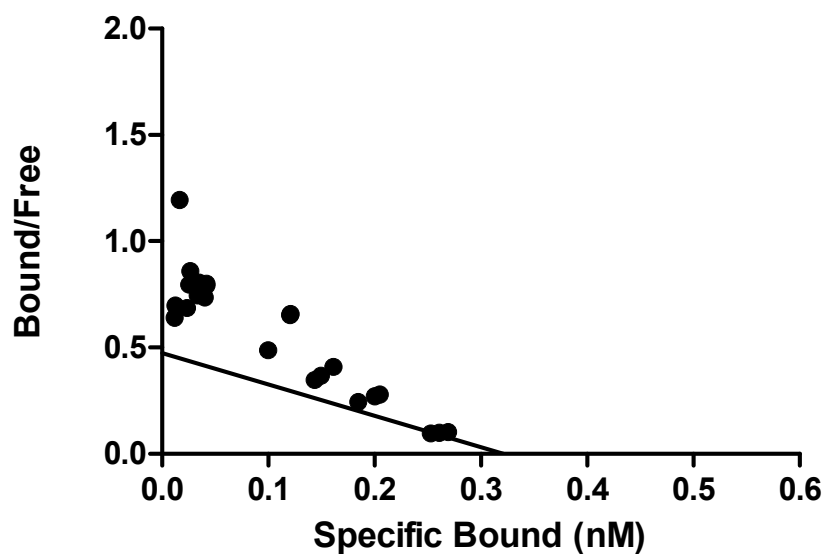
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2982	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3267	(not used)	
NS	0.01395	0.01395	0.01395
BmaxM	3.267e-010	(not used)	
Bmax/Kd	1.096	(not used)	
Std. Error			
KdnM	0.01044	(not used)	
BmaxnM	0.003301	(not used)	
NS	0.0005724	0.0005724	0.0005724
Bmax/Kd	0.03069	(not used)	
95% Confidence Intervals			
KdnM	0.2771 to 0.3193	(not used)	
BmaxnM	0.3201 to 0.3334	(not used)	
NS	0.01279 to 0.01511	0.01279 to 0.01511	0.01279 to 0.01511
BmaxM	3.201e-010 to 3.334e-010	(not used)	
Bmax/Kd	1.034 to 1.158	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9988	0.9825	0.9990
Absolute Sum of Squares	460761	94751	555512
Sy.x			117.8
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	19	24	
Outliers (excluded, Q=1.0%)	5	0	

Laboratory: CEETOX, Run ID:FWA 20080807 saturation #3, Run Date: 8/7/08
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: CEETOX, Run ID:FWA 20080807 saturation #3, Run Date: 8/7/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1309.333000	768	202
1309.333000	610	134
1309.333000	586	29
2337.667000	1128	53
2337.667000	1085	96
2337.667000	1003	115
3131.667000	1378	43
3131.667000	1430	67
3131.667000	1435	96
3765.667000	1709	53
3765.667000	1718	53
3765.667000	1642	130
12184.000000	4987	293
12184.000000	4968	302
12184.000000	4166	187
22117.330000	6696	365
22117.330000	6235	451
22117.330000	6000	370
37238.330000	8405	557
37238.330000	8587	605
37238.330000	7795	605
114102.000000	11602	1392
114102.000000	11923	1426
114102.000000	11285	1402

Outliers

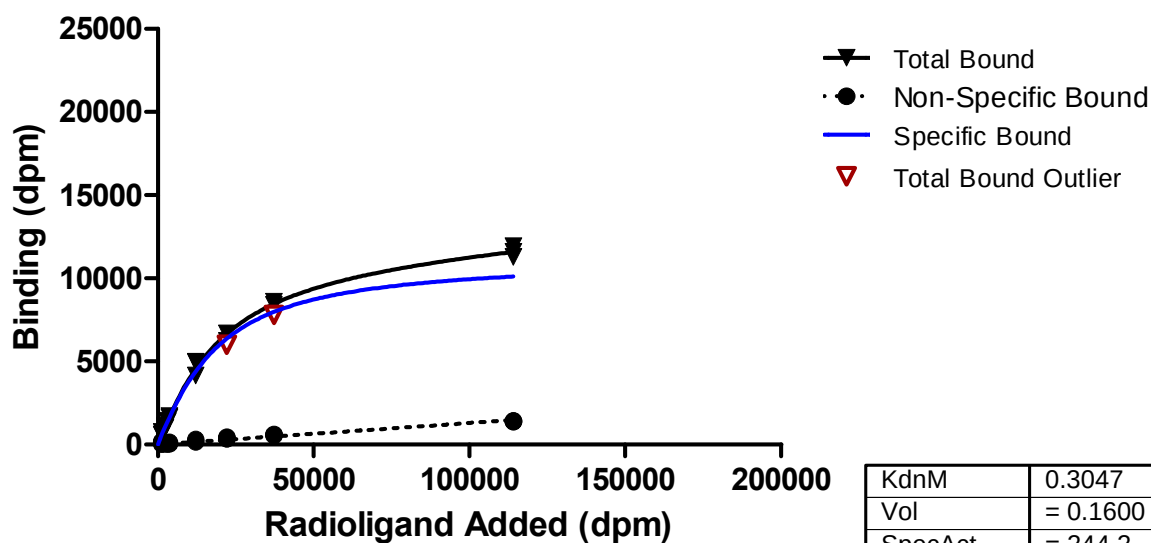
Total Added (dpm)	Total Bound (dpm)
12184.000	4987.000
12184.000	4968.000
22117.330	6696.000
37238.330	8405.000
37238.330	8587.000
114102.000	11923.000
114102.000	11285.000

Nonlinear Fit Results

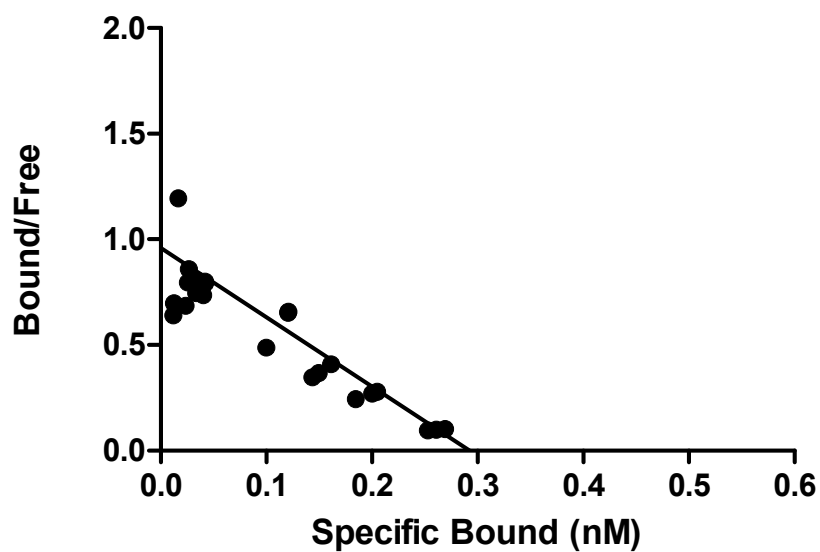
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.6770	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3208	(not used)	
NS	0.01196	0.01196	0.01196
background	74.26	74.26	74.26
kM	6.770e-010	(not used)	
BmaxM	3.208e-010	(not used)	
Bmax/Kd	0.4739	(not used)	
Std. Error			
KdM	0.01653	(not used)	
BmaxM	0.003463	(not used)	
NS	0.0003780	0.0003780	0.0003780
background	15.30	15.30	15.30
Bmax/Kd	0.007402	(not used)	
95% Confidence Intervals			
KdM	0.6435 to 0.7106	(not used)	
BmaxM	0.3138 to 0.3278	(not used)	
NS	0.01120 to 0.01273	0.01120 to 0.01273	0.01120 to 0.01273
background	43.24 to 105.3	43.24 to 105.3	43.24 to 105.3
kM	6.435e-010 to 7.106e-010	(not used)	
BmaxM	3.138e-010 to 3.278e-010	(not used)	
Bmax/Kd	0.4589 to 0.4889	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9995	0.9809	0.9993
Absolute Sum of Squares	84721	83817	168538
Sy.x			67.49
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	17	24	
Outliers (excluded, Q=1.0%)	7	0	

Laboratory: CEETOX, Run ID:FWA 20080807 saturation #3, Run Date: 8/7/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: CEETOX, Run ID:FWA 20080807 saturation #3, Run Date: 8/7/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1309.333000	768	202
1309.333000	610	134
1309.333000	586	29
2337.667000	1128	53
2337.667000	1085	96
2337.667000	1003	115
3131.667000	1378	43
3131.667000	1430	67
3131.667000	1435	96
3765.667000	1709	53
3765.667000	1718	53
3765.667000	1642	130
12184.000000	4987	293
12184.000000	4968	302
12184.000000	4166	187
22117.330000	6696	365
22117.330000	6235	451
22117.330000	6000	370
37238.330000	8405	557
37238.330000	8587	605
37238.330000	7795	605
114102.000000	11602	1392
114102.000000	11923	1426
114102.000000	11285	1402

Outliers

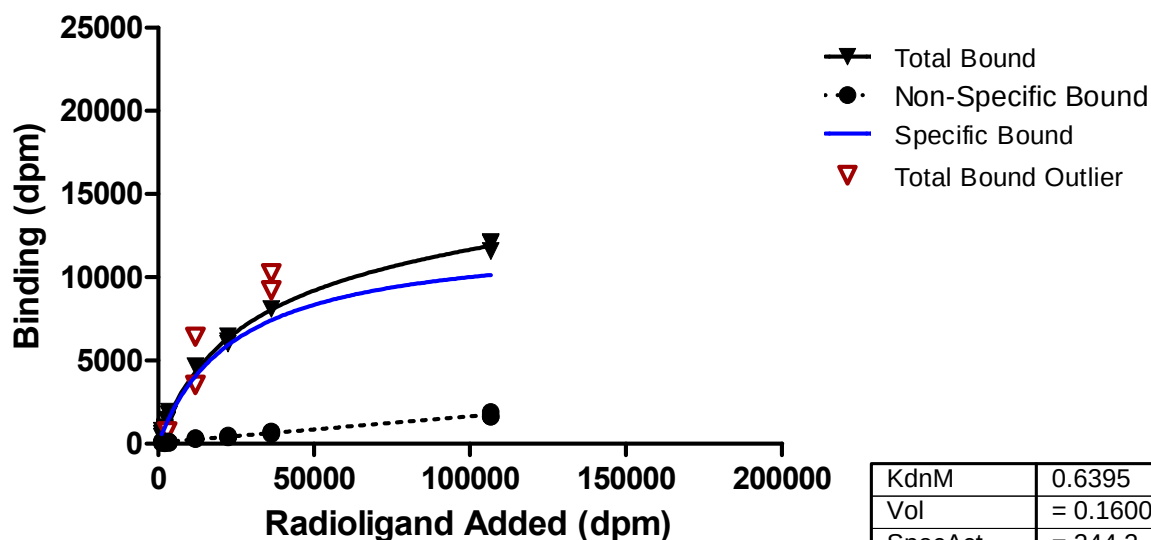
Total Added (dpm)	Total Bound (dpm)
22117.330	6000.000
37238.330	7795.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3047	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.2925	(not used)	
NS	0.01318	0.01318	0.01318
BmaxM	2.925e-010	(not used)	
Bmax/Kd	0.9600	(not used)	
Std. Error			
KdnM	0.01370	(not used)	
BmaxnM	0.004357	(not used)	
NS	0.0007797	0.0007797	0.0007797
Bmax/Kd	0.03288	(not used)	
95% Confidence Intervals			
KdnM	0.2771 to 0.3324	(not used)	
BmaxnM	0.2837 to 0.3013	(not used)	
NS	0.01161 to 0.01475	0.01161 to 0.01475	0.01161 to 0.01475
BmaxM	2.837e-010 to 3.013e-010	(not used)	
Bmax/Kd	0.8937 to 1.026	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9971	0.9540	0.9977
Absolute Sum of Squares	947765	202287	1.150e+006
Sy.x			163.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: CEETOX, Run ID:FWA 20080917 saturation #4, Run Date: 9/17/08
Protocol: FWA

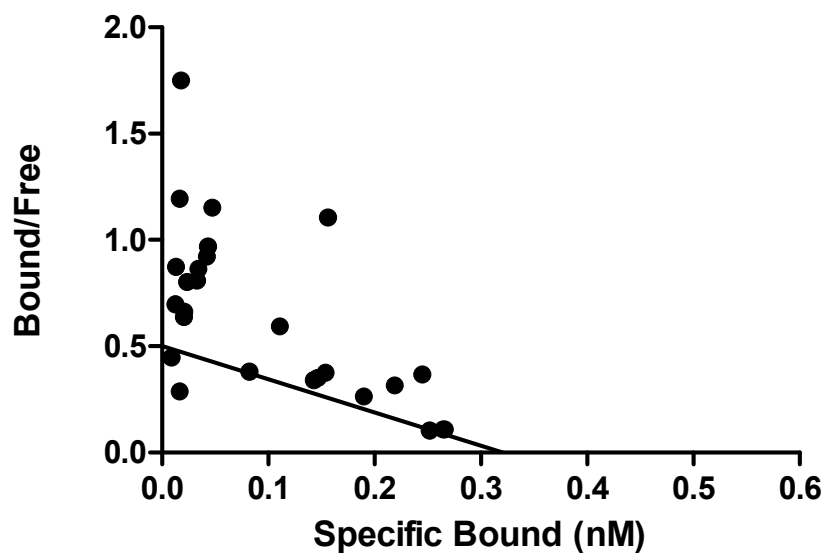
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.6395
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3204

Std. Error	
KdnM	0.02853
BmaxnM	0.005665

Scatchard Plot



Laboratory: CEETOX, Run ID:FWA 20080917 saturation #4, Run Date: 9/17/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1187.000000	787	158
1187.000000	600	53
1187.000000	427	48
2120.000000	984	38
2120.000000	888	115
2120.000000	869	62
2981.000000	1392	96
2981.000000	1440	91
2981.000000	749	134
3521.000000	1776	110
3521.000000	1733	43
3521.000000	1925	101
11938.000000	6422	346
11938.000000	4651	346
11938.000000	3528	278
22428.000000	6442	389
22428.000000	6149	480
22428.000000	6010	413
36272.000000	10238	730
36272.000000	9226	590
36272.000000	8093	691
106562.000000	12110	1910
106562.000000	11563	1637
106562.000000	12058	1622

Outliers

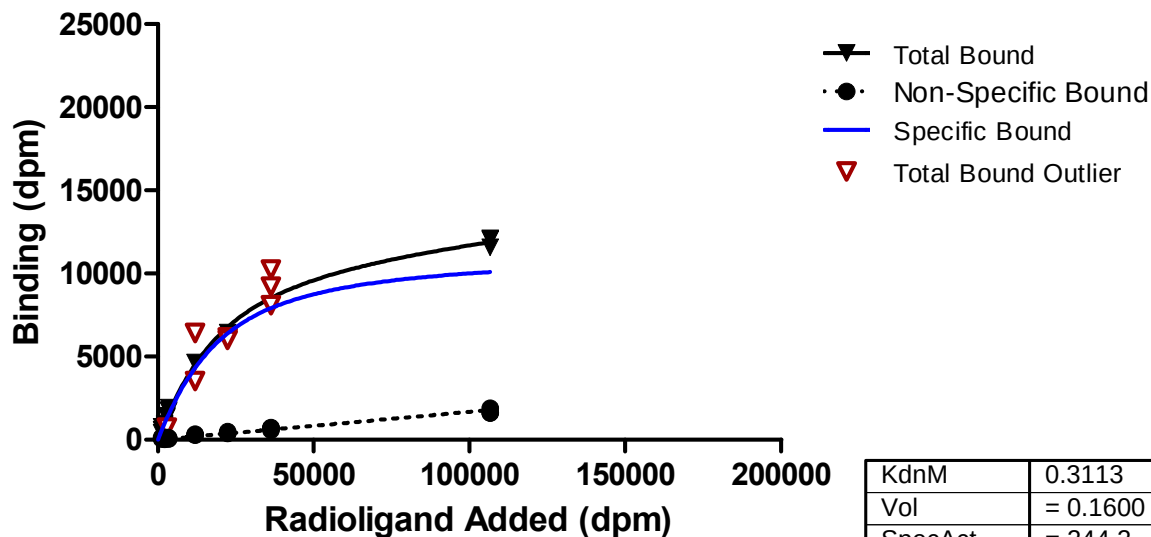
Total Added (dpm)	Total Bound (dpm)
2981.000	749.000
11938.000	6422.000
11938.000	3528.000
36272.000	10238.000
36272.000	9226.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.6395	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3204	(not used)	
NS	0.01590	0.01590	0.01590
background	58.96	58.96	58.96
kdM	6.395e-010	(not used)	
BmaxM	3.204e-010	(not used)	
Bmax/Kd	0.5010	(not used)	
Std. Error			
KdM	0.02853	(not used)	
BmaxM	0.005665	(not used)	
NS	0.0008671	0.0008671	0.0008671
background	32.79	32.79	32.79
Bmax/Kd	0.01525	(not used)	
95% Confidence Intervals			
KdM	0.5818 to 0.6972	(not used)	
BmaxM	0.3089 to 0.3318	(not used)	
NS	0.01414 to 0.01765	0.01414 to 0.01765	0.01414 to 0.01765
background	0.0 to 125.3	0.0 to 125.3	0.0 to 125.3
kdM	5.818e-010 to 6.972e-010	(not used)	
BmaxM	3.089e-010 to 3.318e-010	(not used)	
Bmax/Kd	0.4701 to 0.5318	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9977	0.9832	0.9982
Absolute Sum of Squares	707220	112827	820047
Sy.x			145.0
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	19	24	
Outliers (excluded, Q=1.0%)	5	0	

Laboratory: CEETOX, Run ID:FWA 20080917 saturation #4, Run Date: 9/17/08
Protocol: FWA

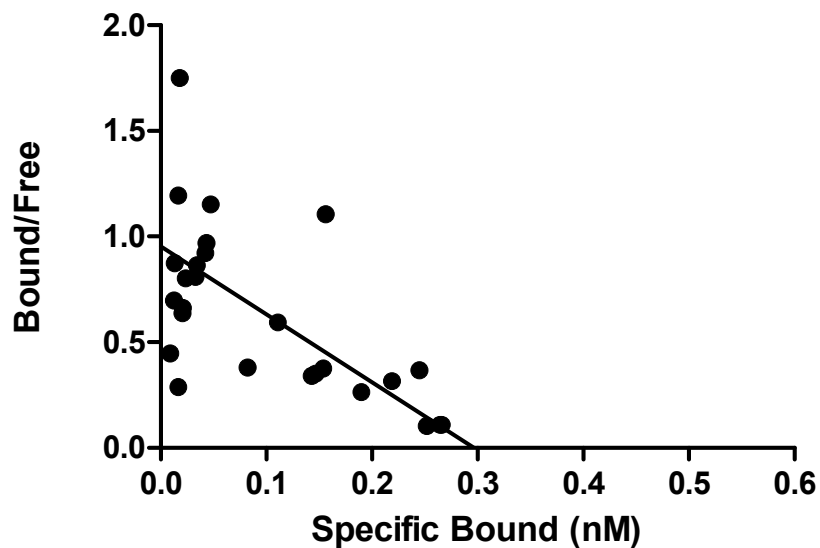
One Site - Total+NSB account for ligand depletion



KdnM	0.3113
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.2964

Std. Error	
KdnM	0.01661
BmaxnM	0.004197

Scatchard Plot



Laboratory: CEETOX, Run ID:FWA 20080917 saturation #4, Run Date: 9/17/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1187.000000	787	158
1187.000000	600	53
1187.000000	427	48
2120.000000	984	38
2120.000000	888	115
2120.000000	869	62
2981.000000	1392	96
2981.000000	1440	91
2981.000000	749	134
3521.000000	1776	110
3521.000000	1733	43
3521.000000	1925	101
11938.000000	6422	346
11938.000000	4651	346
11938.000000	3528	278
22428.000000	6442	389
22428.000000	6149	480
22428.000000	6010	413
36272.000000	10238	730
36272.000000	9226	590
36272.000000	8093	691
106562.000000	12110	1910
106562.000000	11563	1637
106562.000000	12058	1622

Outliers

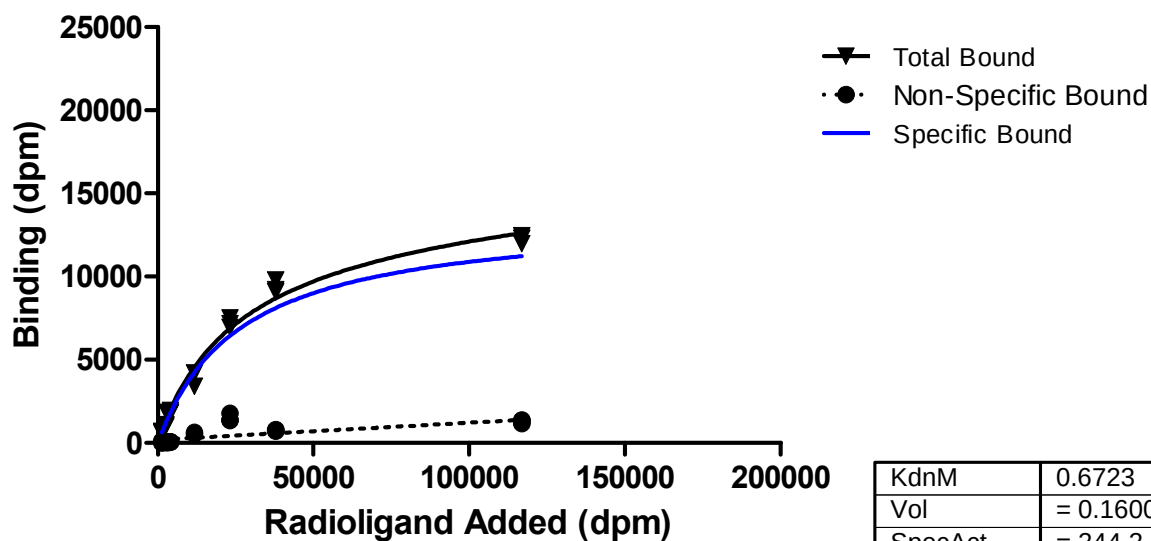
Total Added (dpm)	Total Bound (dpm)
2981.000	749.000
11938.000	6422.000
11938.000	3528.000
22428.000	6149.000
22428.000	6010.000
36272.000	10238.000
36272.000	9226.000
36272.000	8093.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3113	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.2964	(not used)	
NS	0.01708	0.01708	0.01708
BmaxM	2.964e-010	(not used)	
Bmax/Kd	0.9522	(not used)	
Std. Error			
KdnM	0.01661	(not used)	
BmaxnM	0.004197	(not used)	
NS	0.0007382	0.0007382	0.0007382
Bmax/Kd	0.04210	(not used)	
95% Confidence Intervals			
KdnM	0.2776 to 0.3450	(not used)	
BmaxnM	0.2879 to 0.3049	(not used)	
NS	0.01558 to 0.01858	0.01558 to 0.01858	0.01558 to 0.01858
BmaxM	2.879e-010 to 3.049e-010	(not used)	
Bmax/Kd	0.8669 to 1.038	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9980	0.9715	0.9981
Absolute Sum of Squares	566352	191410	757761
Sy.x			143.1
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	16	24	
Outliers (excluded, Q=1.0%)	8	0	

Laboratory: Lovelace, Run ID: sat3, Run Date: 9/11/08
Protocol: FWA

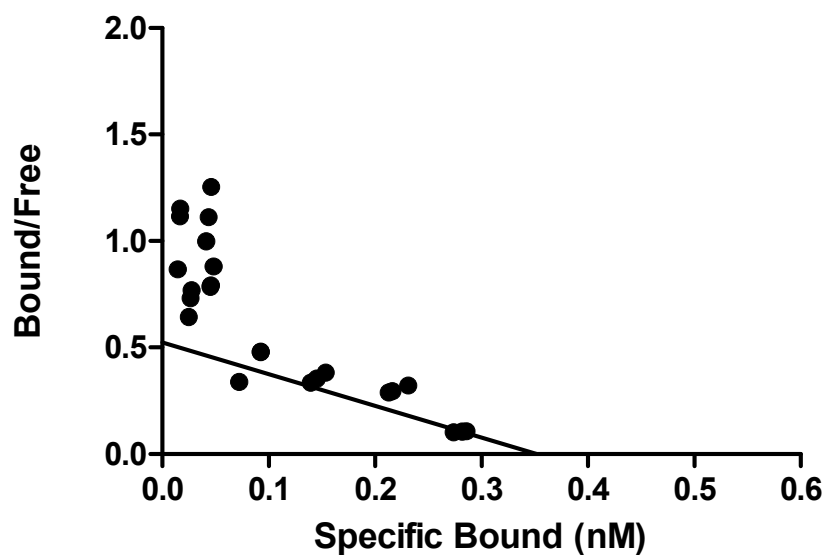
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.6723
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3519

Std. Error	
KdnM	0.08121
BmaxnM	0.01759

Scatchard Plot



Laboratory: Lovelace, Run ID: sat3, Run Date: 9/11/08
Protocol: FWA

Data

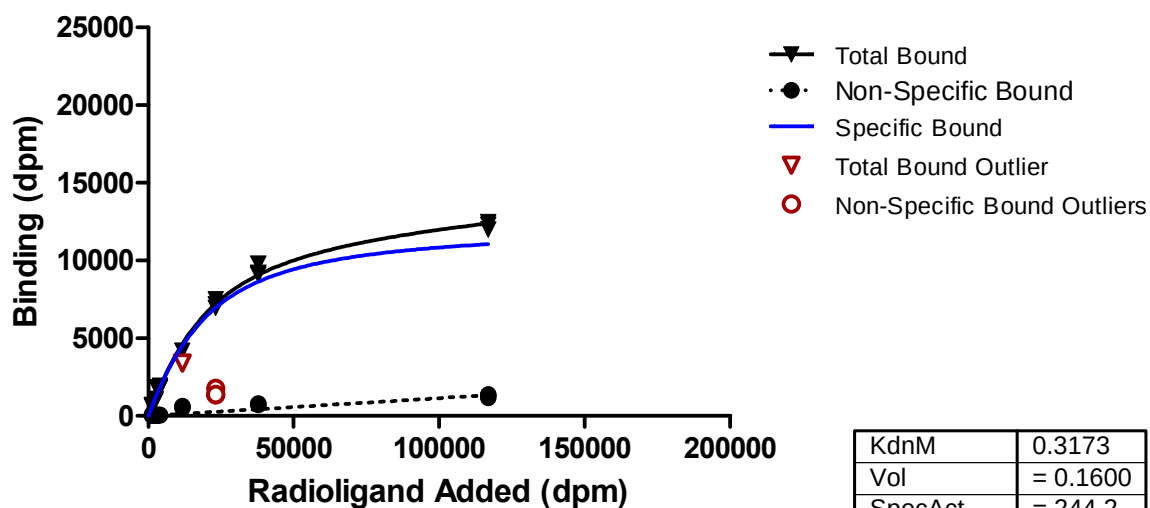
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1258.000000	682	115
1258.000000	691	0
1258.000000	605	0
2496.333000	998	34
2496.333000	1104	
2496.333000	1075	
3282.667000	1670	67
3282.667000	1757	29
3282.667000	1853	82
4077.333000	1939	48
4077.333000	1834	48
4077.333000	1824	67
11733.670000	3408	528
11733.670000	4195	
11733.670000	4200	638
23167.670000	6955	1358
23167.670000	7181	1771
23167.670000	7502	1392
37799.000000	9802	725
37799.000000	9211	
37799.000000	9086	806
116794.300000	12461	1320
116794.300000	11990	1387
116794.300000	12307	1171

Nonlinear Fit Results

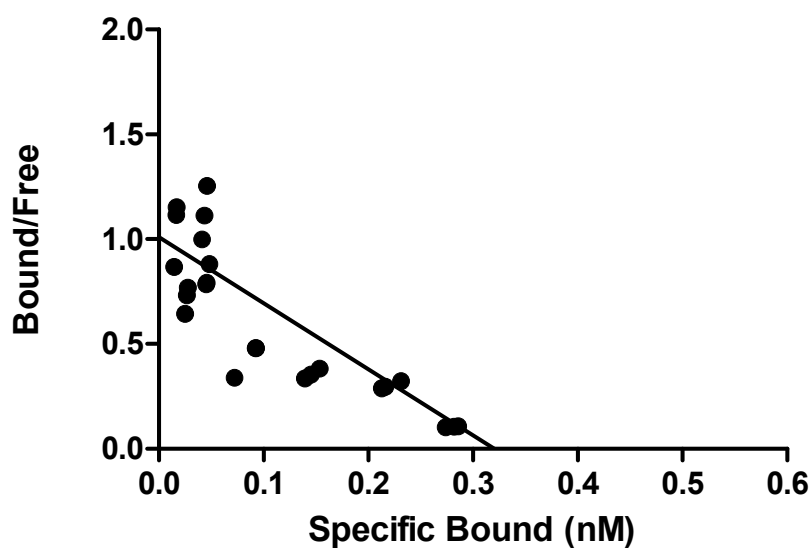
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.6723	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3519	(not used)	
NS	0.01028	0.01028	0.01028
background	191.8	191.8	191.8
kdM	6.723e-010	(not used)	
BmaxM	3.519e-010	(not used)	
Bmax/Kd	0.5234	(not used)	
Std. Error			
KdM	0.08121	(not used)	
BmaxM	0.01759	(not used)	
NS	0.002643	0.002643	0.002643
background	115.2	115.2	115.2
Bmax/Kd	0.04205	(not used)	
95% Confidence Intervals			
KdM	0.5082 to 0.8364	(not used)	
BmaxM	0.3164 to 0.3875	(not used)	
NS	0.004936 to 0.01562	0.004936 to 0.01562	0.004936 to 0.01562
background	0.0 to 424.7	0.0 to 424.7	0.0 to 424.7
kdM	5.082e-010 to 8.364e-010	(not used)	
BmaxM	3.164e-010 to 3.875e-010	(not used)	
Bmax/Kd	0.4385 to 0.6084	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9877	0.4159	0.9848
Absolute Sum of Squares	4.883e+006	4.171e+006	9.054e+006
Sy.x			475.8
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	24	20	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Lovelace, Run ID: sat3, Run Date: 9/11/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Lovelace, Run ID: sat3, Run Date: 9/11/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1258.000000	682	115
1258.000000	691	0
1258.000000	605	0
2496.333000	998	34
2496.333000	1104	
2496.333000	1075	
3282.667000	1670	67
3282.667000	1757	29
3282.667000	1853	82
4077.333000	1939	48
4077.333000	1834	48
4077.333000	1824	67
11733.670000	3408	528
11733.670000	4195	
11733.670000	4200	638
23167.670000	6955	1358
23167.670000	7181	1771
23167.670000	7502	1392
37799.000000	9802	725
37799.000000	9211	
37799.000000	9086	806
116794.300000	12461	1320
116794.300000	11990	1387
116794.300000	12307	1171

Outliers

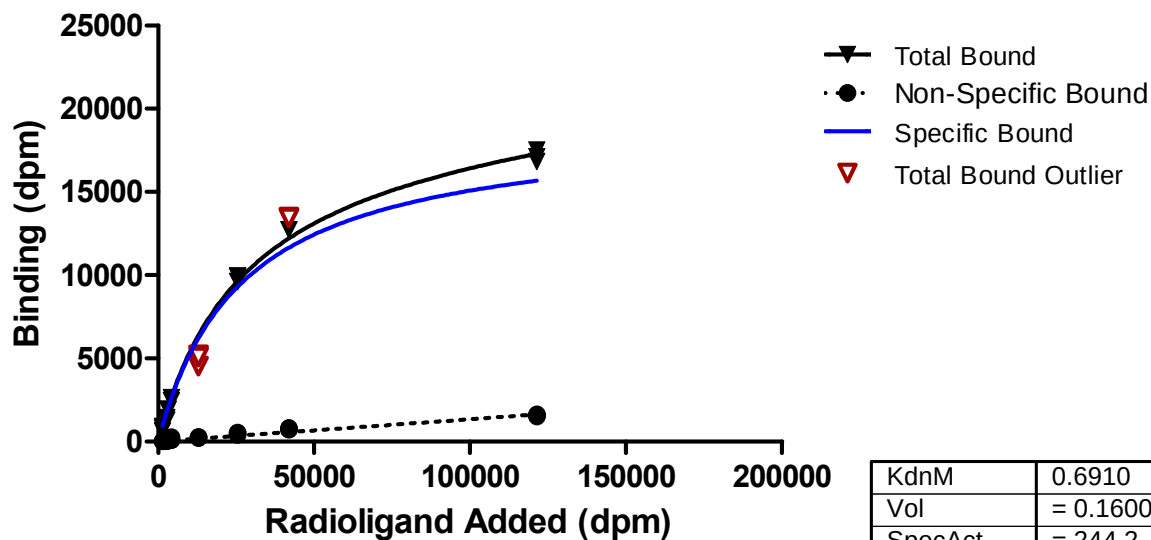
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
11733.670	3408.000	
23167.670		1358.000
23167.670		1771.000
23167.670		1392.000

Nonlinear Fit Results

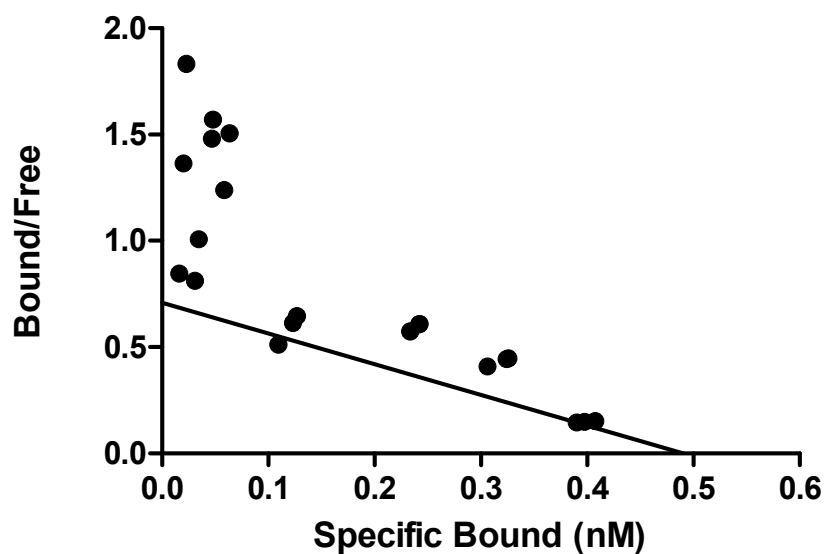
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3173	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3201	(not used)	
NS	0.01154	0.01154	0.01154
BmaxM	3.201e-010	(not used)	
Bmax/Kd	1.009	(not used)	
Std. Error			
KdnM	0.01979	(not used)	
BmaxnM	0.006633	(not used)	
NS	0.001163	0.001163	0.001163
Bmax/Kd	0.04703	(not used)	
95% Confidence Intervals			
KdnM	0.2772 to 0.3574	(not used)	
BmaxnM	0.3066 to 0.3335	(not used)	
NS	0.009186 to 0.01390	0.009186 to 0.01390	0.009186 to 0.01390
BmaxM	3.066e-010 to 3.335e-010	(not used)	
Bmax/Kd	0.9135 to 1.104	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9962	0.8301	0.9963
Absolute Sum of Squares	1.493e+006	679196	2.172e+006
Sy.x			242.3
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	23	17	
Outliers (excluded, Q=1.0%)	1	3	

Laboratory: Lovelace, Run ID: sat4, Run Date: 9/30/08
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: Lovelace, Run ID: sat4, Run Date: 9/30/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1388.000000	902	38
1388.000000	806	0
1388.000000	643	0
2761.333000	1426	48
2761.333000	1282	149
2761.333000	1282	43
3132.000000		53
3132.000000	1939	77
3132.000000	1896	
4288.000000		269
4288.000000	2640	101
4288.000000	2443	106
12897.330000	4536	259
12897.330000	5213	216
12897.330000	5064	288
25468.670000	9926	408
25468.670000	9946	504
25468.670000	9605	538
41951.330000	13498	816
41951.330000	12725	749
41951.330000	13430	720
121384.000000	16819	1594
121384.000000	17112	1632
121384.000000	17501	1502

Outliers

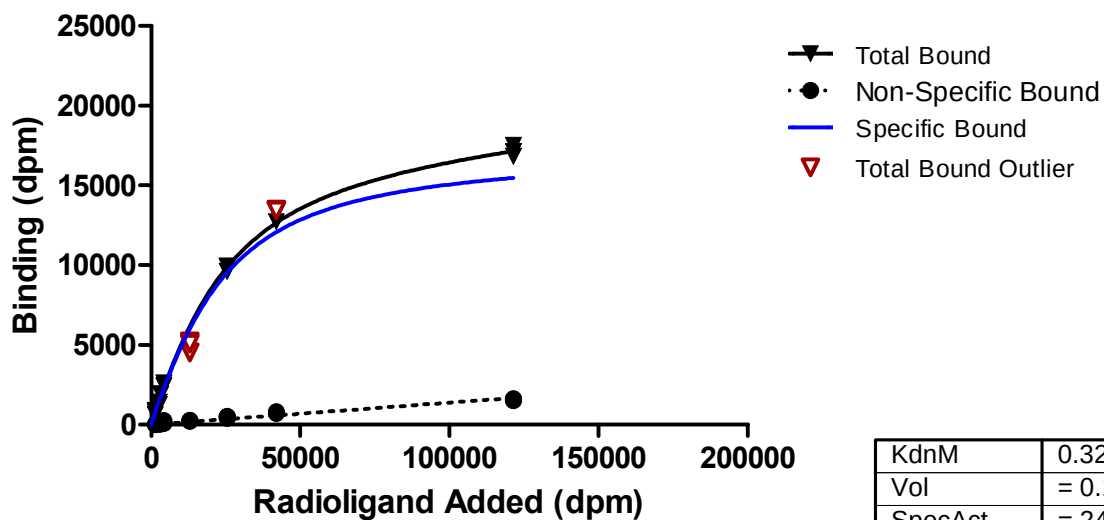
Total Added (dpm)	Total Bound (dpm)
12897.330	4536.000
12897.330	5213.000
12897.330	5064.000
41951.330	13498.000
41951.330	13430.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion			
Best-fit values			
KdN	0.6910	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxN	0.4902	(not used)	
NS	0.01340	0.01340	0.01340
background	9.801e-010	9.801e-010	9.801e-010
kdM	6.910e-010	(not used)	
BmaxM	4.902e-010	(not used)	
Bmax/Kd	0.7094	(not used)	
Std. Error			
KdN	0.03343	(not used)	
BmaxN	0.009067	(not used)	
NS	0.001269	0.001269	0.001269
background	53.23	53.23	53.23
Bmax/Kd	0.02374	(not used)	
95% Confidence Intervals			
KdN	0.6231 to 0.7588	(not used)	
BmaxN	0.4718 to 0.5086	(not used)	
NS	0.01082 to 0.01597	0.01082 to 0.01597	0.01082 to 0.01597
background	0.0 to 108.0	0.0 to 108.0	0.0 to 108.0
kdM	6.231e-010 to 7.588e-010	(not used)	
BmaxM	4.718e-010 to 5.086e-010	(not used)	
Bmax/Kd	0.6612 to 0.7575	(not used)	
Goodness of Fit			
Degrees of Freedom			36
R square	0.9975	0.9487	0.9981
Absolute Sum of Squares	1.666e+006	297237	1.963e+006
Sy.x			233.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	17	23	
Outliers (excluded, Q=1.0%)	5	0	

Laboratory: Lovelace, Run ID: sat4, Run Date: 9/30/08
Protocol: FWA

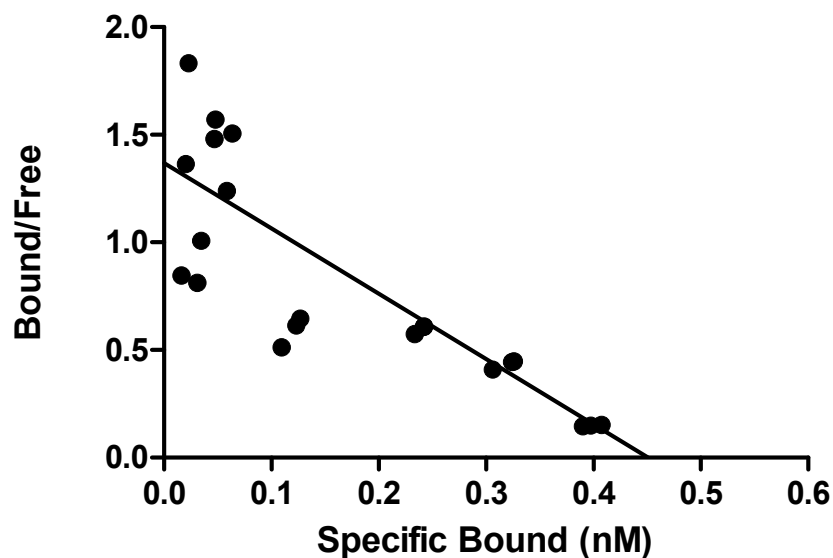
One Site - Total+NSB account for ligand depletion



KdnM	0.3293
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.4509

Std. Error	
KdnM	0.01223
BmaxnM	0.004702

Scatchard Plot



Laboratory: Lovelace, Run ID: sat4, Run Date: 9/30/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1388.000000	902	38
1388.000000	806	0
1388.000000	643	0
2761.333000	1426	48
2761.333000	1282	149
2761.333000	1282	43
3132.000000		53
3132.000000	1939	77
3132.000000	1896	
4288.000000		269
4288.000000	2640	101
4288.000000	2443	106
12897.330000	4536	259
12897.330000	5213	216
12897.330000	5064	288
25468.670000	9926	408
25468.670000	9946	504
25468.670000	9605	538
41951.330000	13498	816
41951.330000	12725	749
41951.330000	13430	720
121384.000000	16819	1594
121384.000000	17112	1632
121384.000000	17501	1502

Outliers

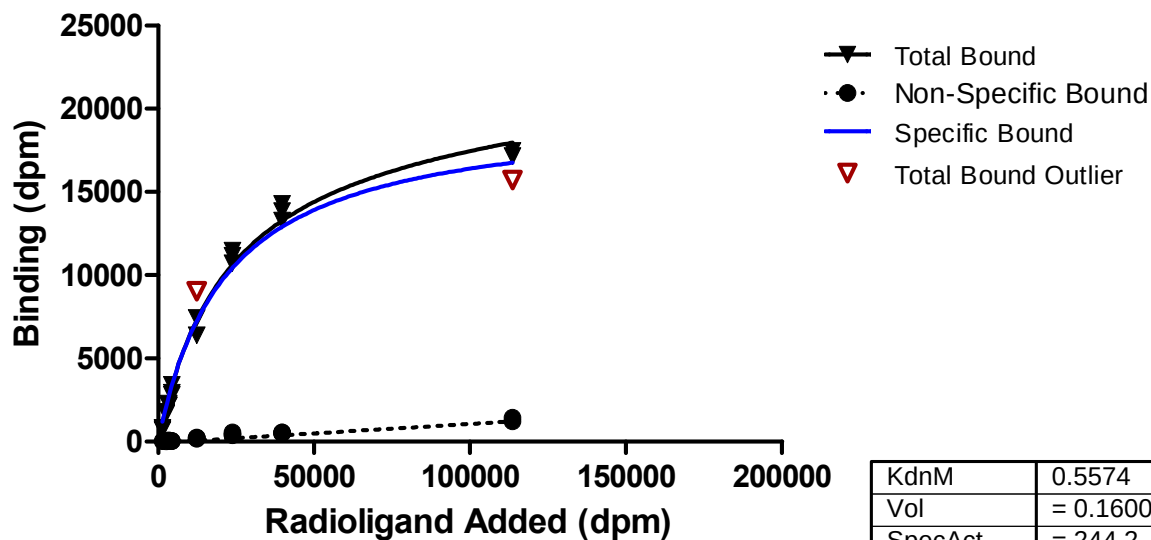
Total Added (dpm)	Total Bound (dpm)
12897.330	4536.000
12897.330	5213.000
12897.330	5064.000
41951.330	13498.000
41951.330	13430.000

Nonlinear Fit Results

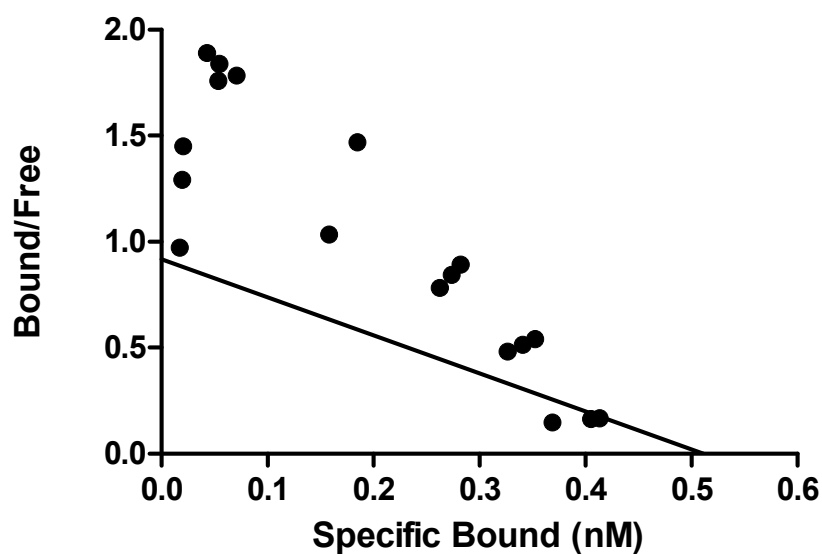
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3293	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.4509	(not used)	
NS	0.01403	0.01403	0.01403
BmaxM	4.509e-010	(not used)	
Bmax/Kd	1.369	(not used)	
Std. Error			
KdnM	0.01223	(not used)	
BmaxnM	0.004702	(not used)	
NS	0.0007206	0.0007206	0.0007206
Bmax/Kd	0.04038	(not used)	
95% Confidence Intervals			
KdnM	0.3045 to 0.3541	(not used)	
BmaxnM	0.4414 to 0.4604	(not used)	
NS	0.01257 to 0.01549	0.01257 to 0.01549	0.01257 to 0.01549
BmaxM	4.414e-010 to 4.604e-010	(not used)	
Bmax/Kd	1.287 to 1.451	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9990	0.9504	0.9991
Absolute Sum of Squares	665488	287457	952945
Sy.x			160.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	17	23	
Outliers (excluded, Q=1.0%)	5	0	

Laboratory: Lovelace, Run ID: sat5, Run Date: 10/9/08
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: Lovelace, Run ID: sat5, Run Date: 10/9/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1384.000000	830	24
1384.000000	792	34
1384.000000	696	24
2563.333000	1786	
2563.333000	1680	0
2563.333000	1776	19
3347.000000	2189	48
3347.000000	2155	72
3347.000000	2290	58
4359.667000	2933	43
4359.667000	2808	38
4359.667000	3403	38
12352.330000	6384	168
12352.330000	7435	221
12352.330000	9024	240
23835.000000	11155	389
23835.000000	11477	422
23835.000000	10718	557
39708.670000	13277	542
39708.670000	13843	494
39708.670000	14290	533
113625.300000	15720	1421
113625.300000	17477	1210
113625.300000	17150	

Outliers

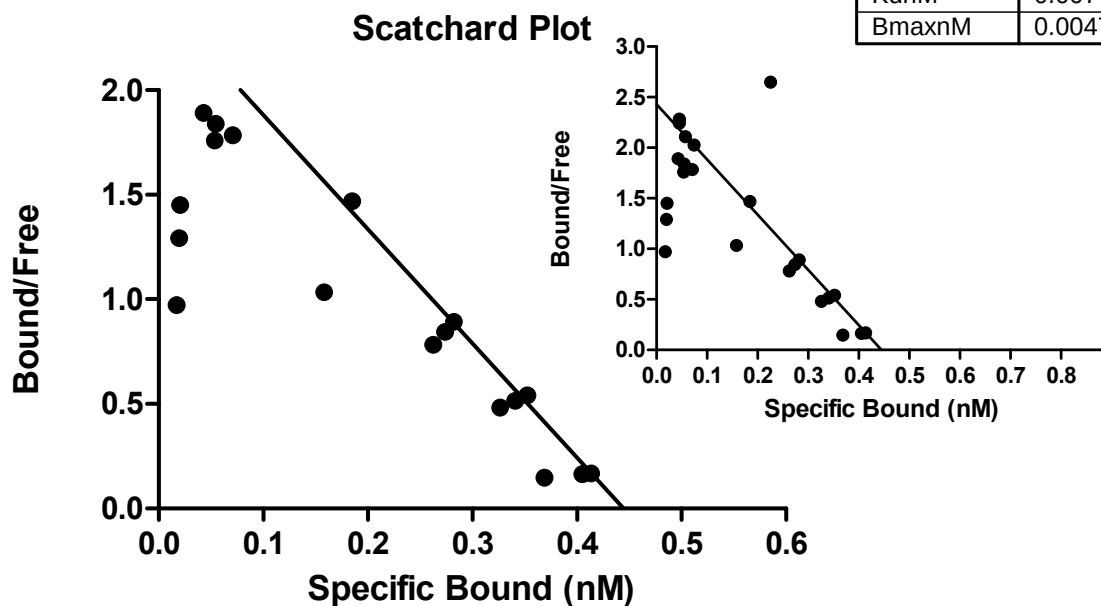
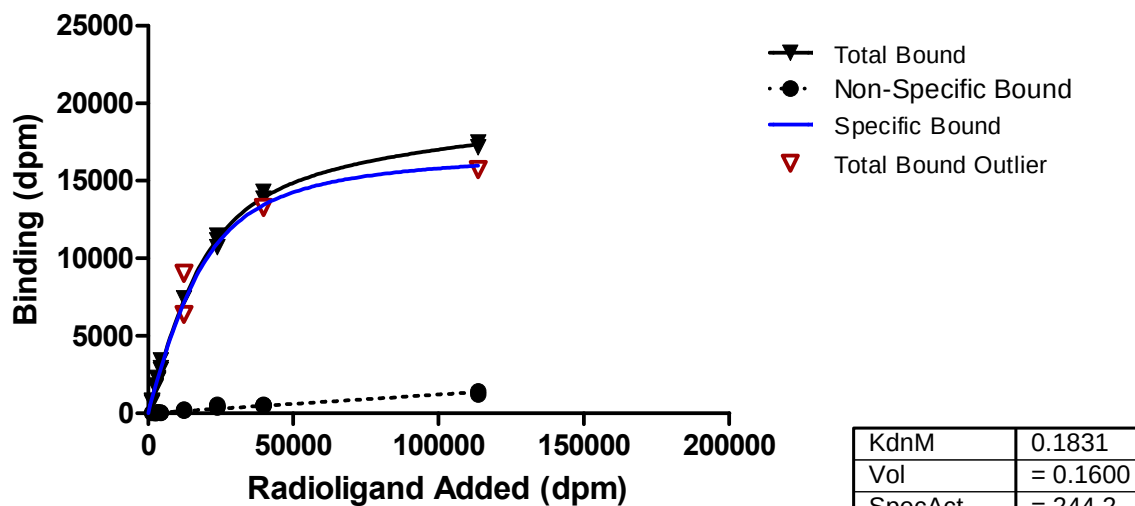
Total Added (dpm)	Total Bound (dpm)
12352.330	9024.000
113625.300	15720.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdN	0.5574	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxN	0.5111	(not used)	
NS	0.01139	0.01139	0.01139
background	-83.69	-83.69	-83.69
kdM	5.574e-010	(not used)	
BmaxM	5.111e-010	(not used)	
Bmax/Kd	0.9170	(not used)	
Std. Error			
KdN	0.04072	(not used)	
BmaxN	0.01526	(not used)	
NS	0.002600	0.002600	0.002600
background	95.11	95.11	95.11
Bmax/Kd	0.04430	(not used)	
95% Confidence Intervals			
KdN	0.4751 to 0.6397	(not used)	
BmaxN	0.4803 to 0.5420	(not used)	
NS	0.006133 to 0.01664	0.006133 to 0.01664	0.006133 to 0.01664
background	-275.9 to 108.5	-275.9 to 108.5	-275.9 to 108.5
kdM	4.751e-010 to 6.397e-010	(not used)	
BmaxM	4.803e-010 to 5.420e-010	(not used)	
Bmax/Kd	0.8275 to 1.007	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9921	0.8375	0.9947
Absolute Sum of Squares	5.692e+006	507052	6.199e+006
Sy.x			393.7
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	22	22	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: Lovelace, Run ID: sat5, Run Date: 10/9/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Laboratory: Lovelace, Run ID: sat5, Run Date: 10/9/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1384.000000	830	24
1384.000000	792	34
1384.000000	696	24
2563.333000	1786	
2563.333000	1680	0
2563.333000	1776	19
3347.000000	2189	48
3347.000000	2155	72
3347.000000	2290	58
4359.667000	2933	43
4359.667000	2808	38
4359.667000	3403	38
12352.330000	6384	168
12352.330000	7435	221
12352.330000	9024	240
23835.000000	11155	389
23835.000000	11477	422
23835.000000	10718	557
39708.670000	13277	542
39708.670000	13843	494
39708.670000	14290	533
113625.300000	15720	1421
113625.300000	17477	1210
113625.300000	17150	

Outliers

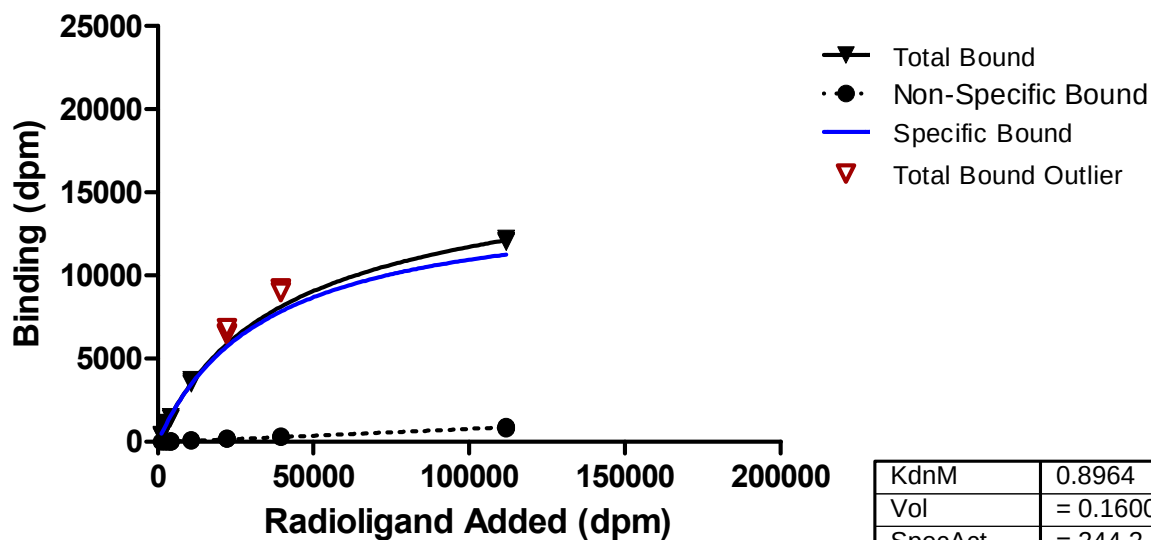
Total Added (dpm)	Total Bound (dpm)
12352.330	6384.000
12352.330	9024.000
39708.670	13277.000
113625.300	15720.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.1831	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.4446	(not used)	
NS	0.01230	0.01230	0.01230
BmaxM	4.446e-010	(not used)	
Bmax/Kd	2.428	(not used)	
Std. Error			
KdnM	0.007497	(not used)	
BmaxnM	0.004745	(not used)	
NS	0.0009367	0.0009367	0.0009367
Bmax/Kd	0.07978	(not used)	
95% Confidence Intervals			
KdnM	0.1679 to 0.1983	(not used)	
BmaxnM	0.4350 to 0.4542	(not used)	
NS	0.01041 to 0.01420	0.01041 to 0.01420	0.01041 to 0.01420
BmaxM	4.350e-010 to 4.542e-010	(not used)	
Bmax/Kd	2.267 to 2.590	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9986	0.9511	0.9990
Absolute Sum of Squares	954354	152679	1.107e+006
Sy.x			168.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
Number of points			
Analyzed	20	22	
Outliers (excluded, Q=1.0%)	4	0	

Laboratory: Missouri, Run ID: 1012, Run Date: 12/3/08
Protocol: FWA

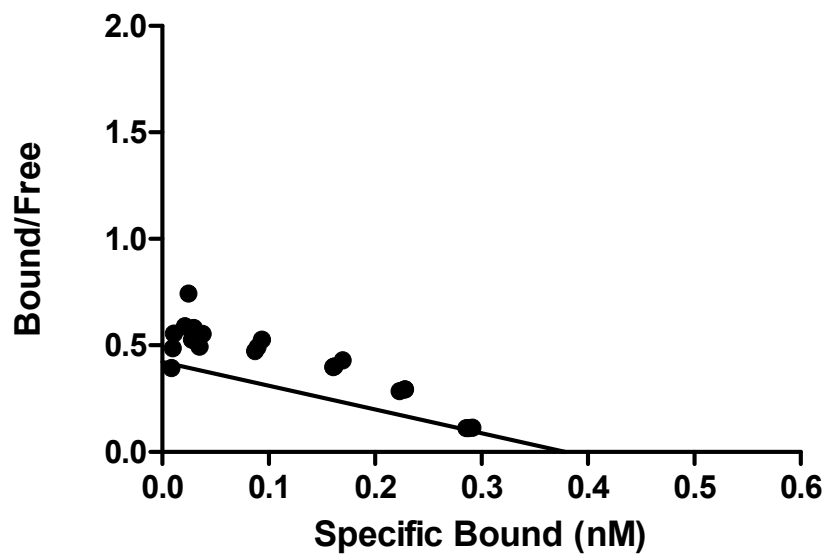
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.8964
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3784

Std. Error	
KdnM	0.02298
BmaxnM	0.003640

Scatchard Plot



Laboratory: Missouri, Run ID: 1012, Run Date: 12/3/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1186.231000	424	0
1186.231000	336	0
1186.231000	389	
2235.589000	831	0
2235.589000	831	0
2235.589000	954	0
3148.074000	1096	18
3148.074000	1131	18
3148.074000	1166	0
4161.413000	1396	18
4161.413000	1502	53
4161.413000		18
10685.680000	3588	71
10685.680000	3747	71
10685.680000	3499	124
22219.020000	6522	177
22219.020000	6469	194
22219.020000	6822	212
39529.820000	9208	283
39529.820000	9226	283
39529.820000	9014	353
111880.300000	12248	901
111880.300000	12018	795
111880.300000	12107	866

Outliers

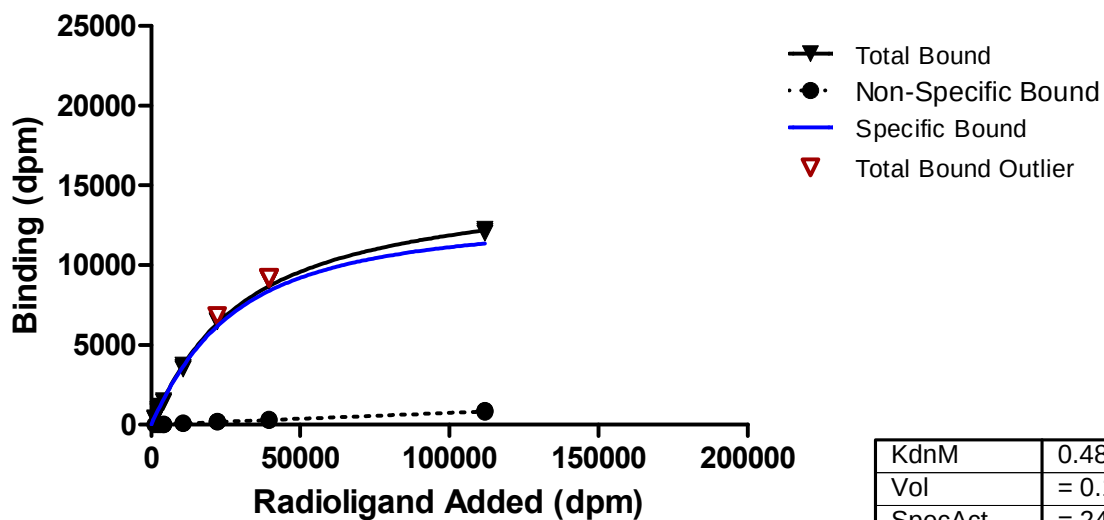
Total Added (dpm)	Total Bound (dpm)
22219.020	6522.000
22219.020	6469.000
22219.020	6822.000
39529.820	9208.000
39529.820	9226.000
39529.820	9014.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdN	0.8964	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3784	(not used)	
NS	0.008067	0.008067	0.008067
background	-31.13	-31.13	-31.13
kdM	8.964e-010	(not used)	
BmaxM	3.784e-010	(not used)	
Bmax/Kd	0.4221	(not used)	
Std. Error			
KdN	0.02298	(not used)	
BmaxM	0.003640	(not used)	
NS	0.0004333	0.0004333	0.0004333
background	17.67	17.67	17.67
Bmax/Kd	0.007625	(not used)	
95% Confidence Intervals			
KdN	0.8498 to 0.9430	(not used)	
BmaxM	0.3710 to 0.3858	(not used)	
NS	0.007188 to 0.008947	0.007188 to 0.008947	0.007188 to 0.008947
background	-66.99 to 4.734	-66.99 to 4.734	-66.99 to 4.734
kdM	8.498e-010 to 9.430e-010	(not used)	
BmaxM	3.710e-010 to 3.858e-010	(not used)	
Bmax/Kd	0.4067 to 0.4376	(not used)	
Goodness of Fit			
Degrees of Freedom			36
R square	0.9994	0.9835	0.9995
Absolute Sum of Squares	180781	28968	209749
Sy.x			76.33
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	17	23	
Outliers (excluded, Q=1.0%)	6	0	

Laboratory: Missouri, Run ID: 1012, Run Date: 12/3/08
Protocol: FWA

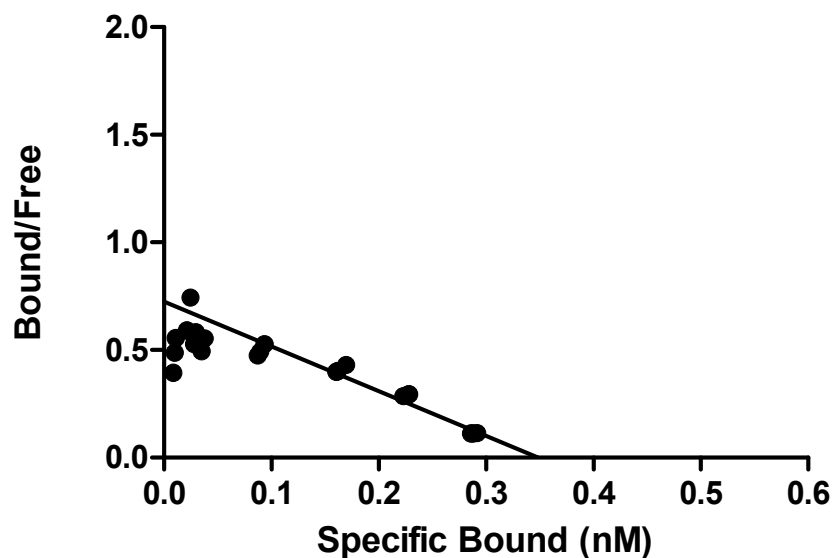
One Site - Total+NSB account for ligand depletion



KdnM	0.4811
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3481

Std. Error	
KdnM	0.01360
BmaxnM	0.003510

Scatchard Plot



Laboratory: Missouri, Run ID: 1012, Run Date: 12/3/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1186.231000	424	0
1186.231000	336	0
1186.231000	389	
2235.589000	831	0
2235.589000	831	0
2235.589000	954	0
3148.074000	1096	18
3148.074000	1131	18
3148.074000	1166	0
4161.413000	1396	18
4161.413000	1502	53
4161.413000		18
10685.680000	3588	71
10685.680000	3747	71
10685.680000	3499	124
22219.020000	6522	177
22219.020000	6469	194
22219.020000	6822	212
39529.820000	9208	283
39529.820000	9226	283
39529.820000	9014	353
111880.300000	12248	901
111880.300000	12018	795
111880.300000	12107	866

Outliers

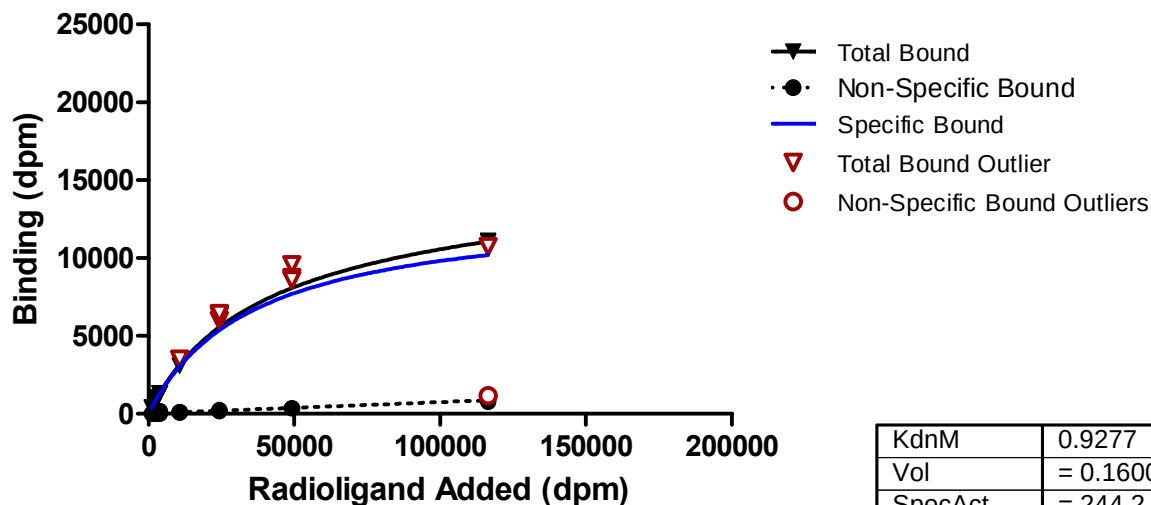
Total Added (dpm)	Total Bound (dpm)
22219.020	6822.000
39529.820	9208.000
39529.820	9226.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.4811	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3481	(not used)	
NS	0.007509	0.007509	0.007509
BmaxM	3.481e-010	(not used)	
Bmax/Kd	0.7236	(not used)	
Std. Error			
KdnM	0.01360	(not used)	
BmaxnM	0.003510	(not used)	
NS	0.0005171	0.0005171	0.0005171
Bmax/Kd	0.01520	(not used)	
95% Confidence Intervals			
KdnM	0.4536 to 0.5086	(not used)	
BmaxnM	0.3410 to 0.3552	(not used)	
NS	0.006464 to 0.008554	0.006464 to 0.008554	0.006464 to 0.008554
BmaxM	3.410e-010 to 3.552e-010	(not used)	
Bmax/Kd	0.6929 to 0.7543	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9987	0.9896	0.9991
Absolute Sum of Squares	443466	18356	461822
Sy.x			107.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	20	23	
Outliers (excluded, Q=1.0%)	3	0	

Laboratory: Missouri, Run ID: 1013, Run Date: 12/3/08
Protocol: FWA

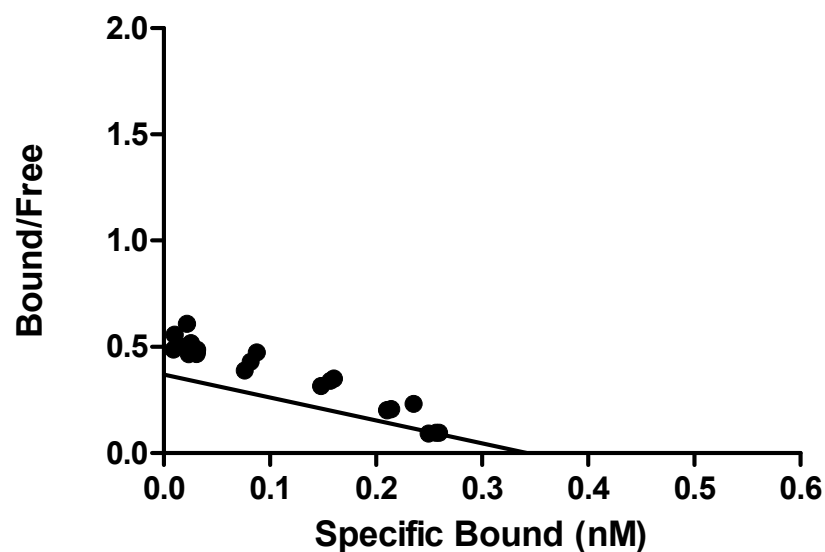
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.9277
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3422

Std. Error	
KdnM	0.02089
BmaxnM	0.002971

Scatchard Plot



Laboratory: Missouri, Run ID: 1013, Run Date: 12/3/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1112.837000	372	17
1112.837000	406	17
1112.837000	406	0
2274.978000	778	34
2274.978000	879	34
2274.978000	879	17
3000.435000	1065	85
3000.435000	1014	85
3000.435000	1082	101
3850.323000	1285	169
3850.323000	1302	68
3850.323000	1319	17
10722.210000	3077	85
10722.210000	3296	118
10722.210000	3516	101
24261.730000	5984	237
24261.730000	6322	186
24261.730000	6457	169
49173.790000	8739	372
49173.790000	8587	372
49173.790000	9568	355
116373.700000	11123	778
116373.700000	10734	1183
116373.700000	11004	980

Outliers

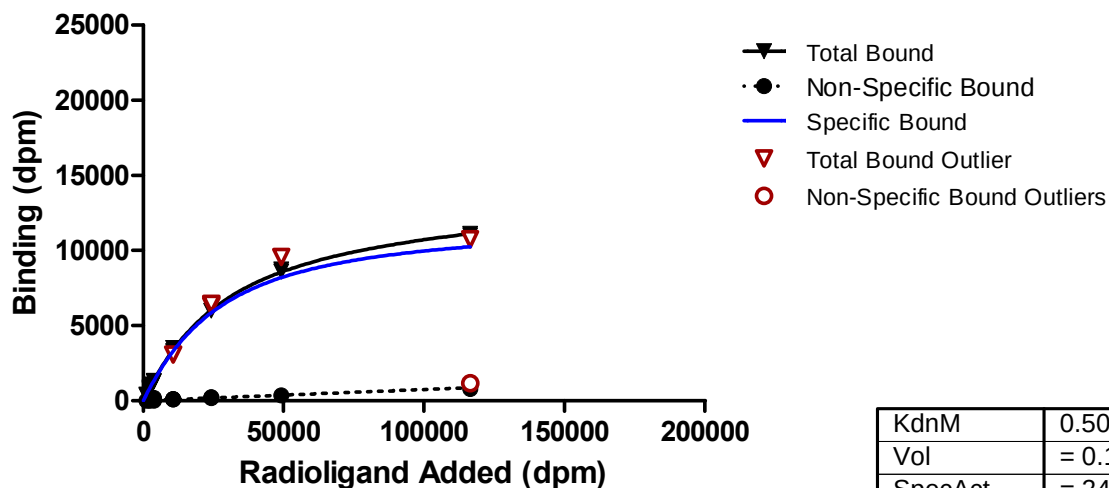
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
10722.210	3516.000	
24261.730	5984.000	
24261.730	6322.000	
24261.730	6457.000	
49173.790	8739.000	
49173.790	8587.000	
49173.790	9568.000	
116373.700	10734.000	
116373.700		1183.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdnM	0.9277	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3422	(not used)	
NS	0.007294	0.007294	0.007294
background	22.25	22.25	22.25
kdM	9.277e-010	(not used)	
BmaxM	3.422e-010	(not used)	
Bmax/Kd	0.3689	(not used)	
Std. Error			
KdnM	0.02089	(not used)	
BmaxnM	0.002971	(not used)	
NS	0.0003304	0.0003304	0.0003304
background	12.29	12.29	12.29
Bmax/Kd	0.005817	(not used)	
95% Confidence Intervals			
KdnM	0.8852 to 0.9701	(not used)	
BmaxnM	0.3362 to 0.3482	(not used)	
NS	0.006623 to 0.007965	0.006623 to 0.007965	0.006623 to 0.007965
background	-2.717 to 47.23	-2.717 to 47.23	-2.717 to 47.23
kdM	8.852e-010 to 9.701e-010	(not used)	
BmaxM	3.362e-010 to 3.482e-010	(not used)	
Bmax/Kd	0.3570 to 0.3807	(not used)	
Goodness of Fit			
Degrees of Freedom			35
R square	0.9997	0.9640	0.9996
Absolute Sum of Squares	51925	48302	100227
Sy.x			53.51
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	16	23	
Outliers (excluded, Q=1.0%)	8	1	

Laboratory: Missouri, Run ID: 1013, Run Date: 12/3/08
Protocol: FWA

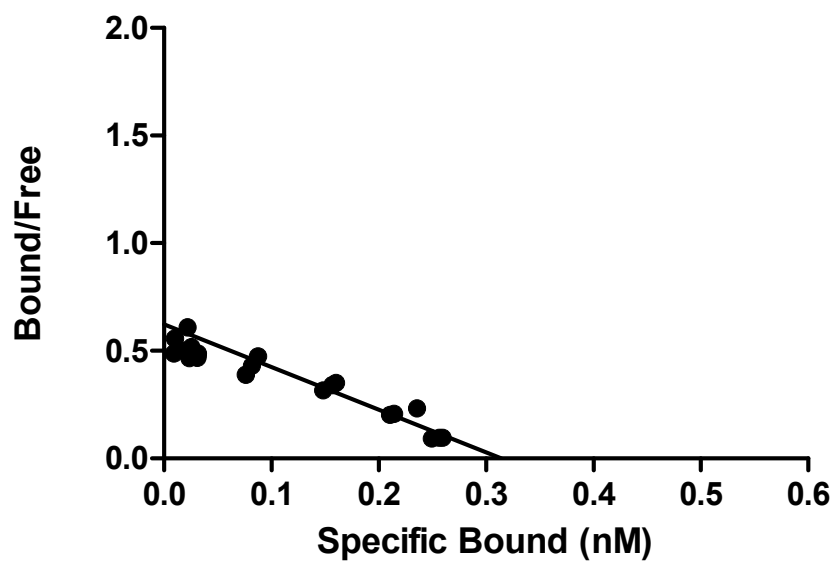
One Site - Total+NSB account for ligand depletion



KdnM	0.5038
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3137

Std. Error	
KdnM	0.01147
BmaxnM	0.002523

Scatchard Plot



Laboratory: Missouri, Run ID: 1013, Run Date: 12/3/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1112.837000	372	17
1112.837000	406	17
1112.837000	406	0
2274.978000	778	34
2274.978000	879	34
2274.978000	879	17
3000.435000	1065	85
3000.435000	1014	85
3000.435000	1082	101
3850.323000	1285	169
3850.323000	1302	68
3850.323000	1319	17
10722.210000	3077	85
10722.210000	3296	118
10722.210000	3516	101
24261.730000	5984	237
24261.730000	6322	186
24261.730000	6457	169
49173.790000	8739	372
49173.790000	8587	372
49173.790000	9568	355
116373.700000	11123	778
116373.700000	10734	1183
116373.700000	11004	980

Outliers

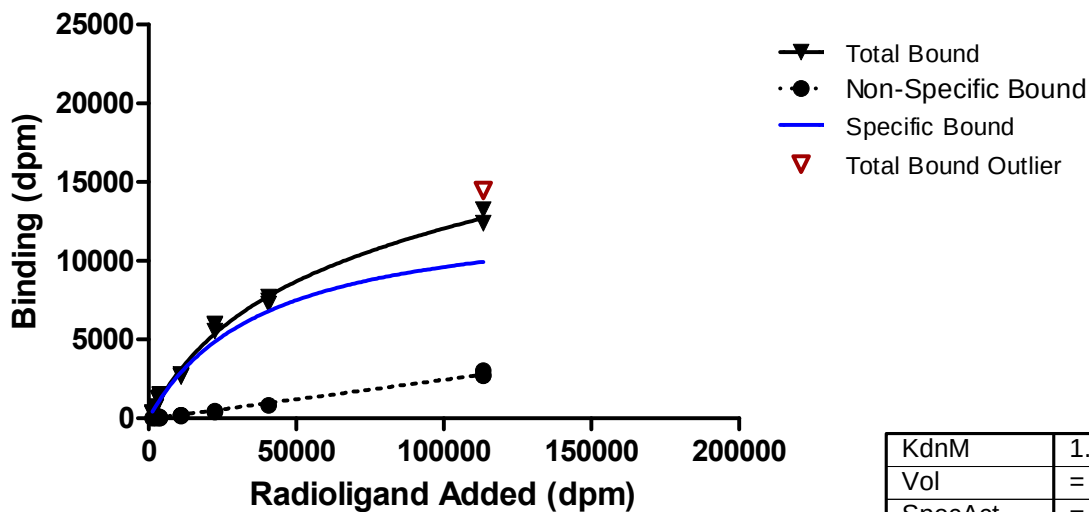
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
10722.210	3077.000	
24261.730	6322.000	
24261.730	6457.000	
49173.790	9568.000	
116373.700	10734.000	
116373.700		1183.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.5038	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3137	(not used)	
NS	0.007540	0.007540	0.007540
BmaxM	3.137e-010	(not used)	
Bmax/Kd	0.6226	(not used)	
Std. Error			
KdnM	0.01147	(not used)	
BmaxnM	0.002523	(not used)	
NS	0.0003503	0.0003503	0.0003503
Bmax/Kd	0.01032	(not used)	
95% Confidence Intervals			
KdnM	0.4806 to 0.5270	(not used)	
BmaxnM	0.3086 to 0.3188	(not used)	
NS	0.006832 to 0.008249	0.006832 to 0.008249	0.006832 to 0.008249
BmaxM	3.086e-010 to 3.188e-010	(not used)	
Bmax/Kd	0.6018 to 0.6435	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9996	0.9537	0.9995
Absolute Sum of Squares	110841	61977	172818
Sy.x			66.57
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	19	23	
Outliers (excluded, Q=1.0%)	5	1	

Laboratory: Missouri, Run ID: 1016, Run Date: 12/21/08
Protocol: FWA

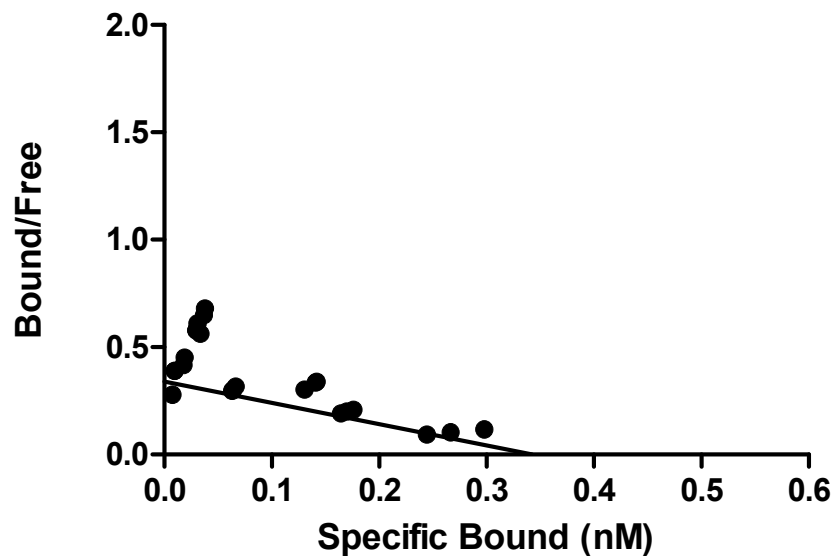
One Site - Total+NSB No Adj for ligand depletion



KdnM	1.002
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3422

Std. Error	
KdnM	0.07840
BmaxnM	0.01293

Scatchard Plot



Laboratory: Missouri, Run ID: 1016, Run Date: 12/21/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1311.894000	369	0
1311.894000	287	0
1311.894000	369	0
2364.823000	738	0
2364.823000	697	0
2364.823000	697	0
3235.625000	1229	41
3235.625000	1270	41
3235.625000	1229	123
3682.408000	1516	82
3682.408000	1352	0
3682.408000	1475	41
10961.850000	2787	205
10961.850000	2705	164
10961.850000	2664	205
22356.260000	5532	410
22356.260000	5942	451
22356.260000	5983	451
40583.330000	7704	820
40583.330000	7253	820
40583.330000	7458	820
113323.700000	14466	3032
113323.700000	13236	2705
113323.700000	12376	2746

Outliers

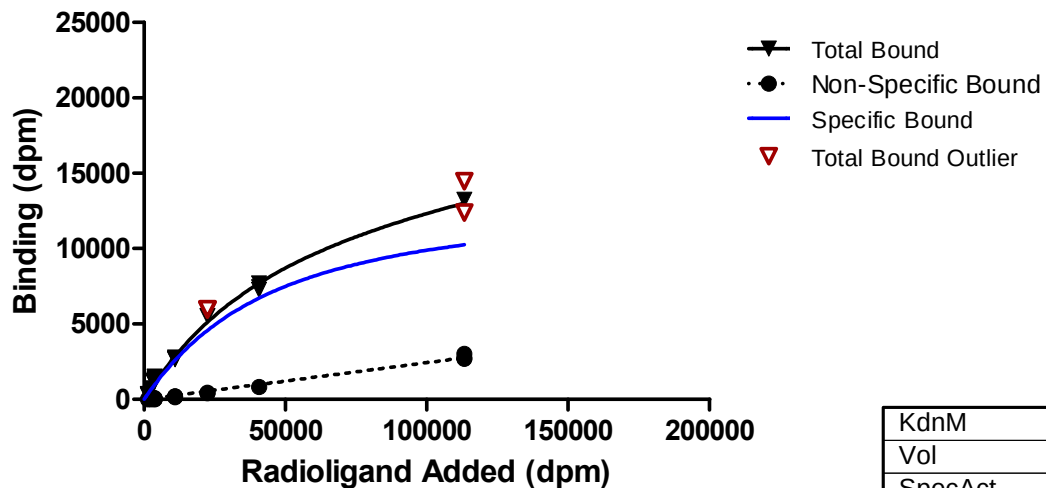
Total Added (dpm)	Total Bound (dpm)
113323.700	14466.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdN	1.002	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxN	0.3422	(not used)	
NS	0.02500	0.02500	0.02500
background	-54.02	-54.02	-54.02
kD	1.002e-009	(not used)	
BmaxM	3.422e-010	(not used)	
Bmax/Kd	0.3414	(not used)	
Std. Error			
KdN	0.07840	(not used)	
BmaxN	0.01293	(not used)	
NS	0.001351	0.001351	0.001351
background	52.91	52.91	52.91
Bmax/Kd	0.01574	(not used)	
95% Confidence Intervals			
KdN	0.8442 to 1.161	(not used)	
BmaxN	0.3161 to 0.3683	(not used)	
NS	0.02227 to 0.02772	0.02227 to 0.02772	0.02227 to 0.02772
background	-160.8 to 52.75	-160.8 to 52.75	-160.8 to 52.75
kD	8.442e-010 to 1.161e-009	(not used)	
BmaxM	3.161e-010 to 3.683e-010	(not used)	
Bmax/Kd	0.3096 to 0.3732	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9925	0.9917	0.9944
Absolute Sum of Squares	2.407e+006	162661	2.569e+006
Sy.x			244.4
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	23	24	
Outliers (excluded, Q=1.0%)	1	0	

Laboratory: Missouri, Run ID: 1016, Run Date: 12/21/08
Protocol: FWA

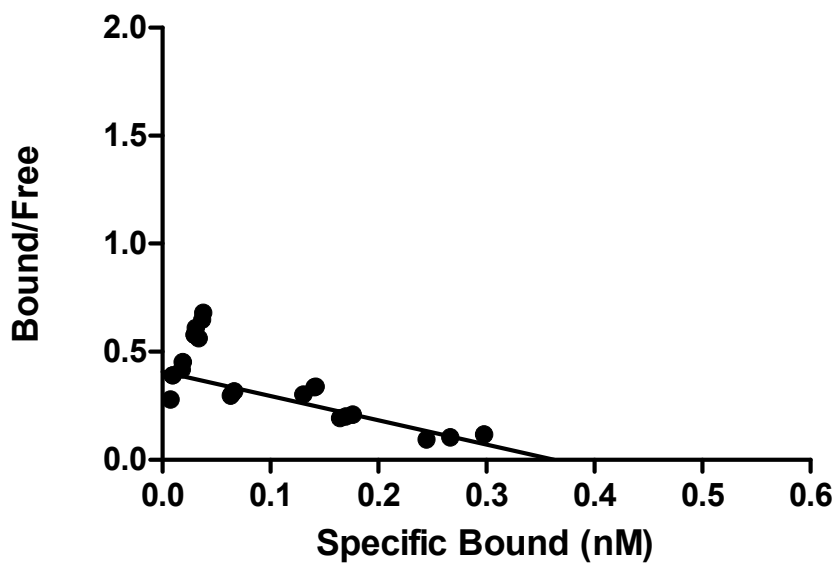
One Site - Total+NSB account for ligand depletion



Kd _n M	0.8908
Vol	= 0.1600
SpecAct	= 244.2
B _{max} nM	0.3626

Std. Error	
Kd _n M	0.06512
B _{max} nM	0.01311

Scatchard Plot



Laboratory: Missouri, Run ID: 1016, Run Date: 12/21/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1311.894000	369	0
1311.894000	287	0
1311.894000	369	0
2364.823000	738	0
2364.823000	697	0
2364.823000	697	0
3235.625000	1229	41
3235.625000	1270	41
3235.625000	1229	123
3682.408000	1516	82
3682.408000	1352	0
3682.408000	1475	41
10961.850000	2787	205
10961.850000	2705	164
10961.850000	2664	205
22356.260000	5532	410
22356.260000	5942	451
22356.260000	5983	451
40583.330000	7704	820
40583.330000	7253	820
40583.330000	7458	820
113323.700000	14466	3032
113323.700000	13236	2705
113323.700000	12376	2746

Outliers

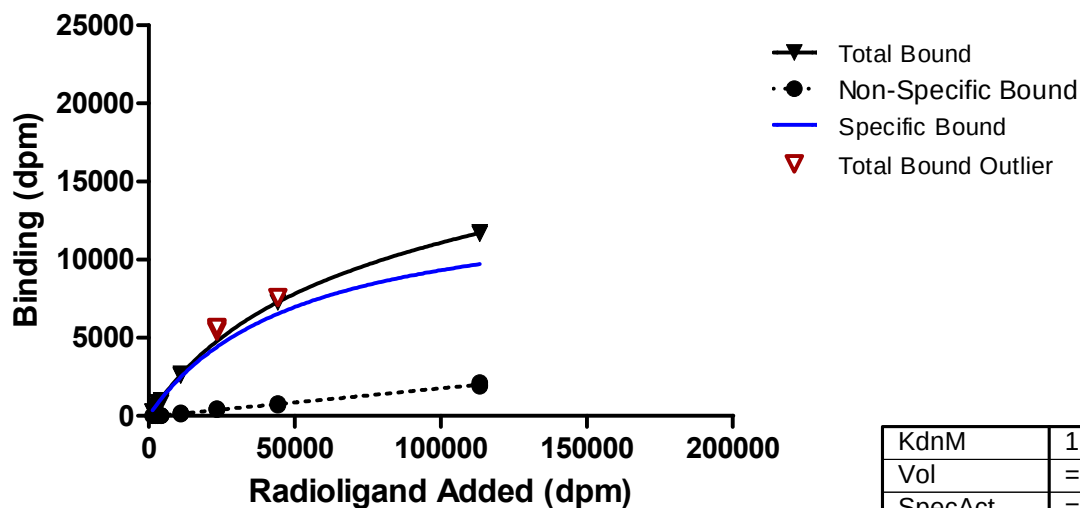
Total Added (dpm)	Total Bound (dpm)
22356.260	5942.000
22356.260	5983.000
113323.700	14466.000
113323.700	12376.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.8908	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3626	(not used)	
NS	0.02494	0.02494	0.02494
BmaxM	3.626e-010	(not used)	
Bmax/Kd	0.4071	(not used)	
Std. Error			
KdnM	0.06512	(not used)	
BmaxnM	0.01311	(not used)	
NS	0.0009618	0.0009618	0.0009618
Bmax/Kd	0.01717	(not used)	
95% Confidence Intervals			
KdnM	0.7593 to 1.022	(not used)	
BmaxnM	0.3361 to 0.3891	(not used)	
NS	0.02300 to 0.02689	0.02300 to 0.02689	0.02300 to 0.02689
BmaxM	3.361e-010 to 3.891e-010	(not used)	
Bmax/Kd	0.3724 to 0.4417	(not used)	
Goodness of Fit			
Degrees of Freedom			41
R square	0.9941	0.9875	0.9950
Absolute Sum of Squares	1.323e+006	244150	1.567e+006
Sy.x			195.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	20	24	
Outliers (excluded, Q=1.0%)	4	0	

Laboratory: Missouri, Run ID: 1017, Run Date: 12/21/08
Protocol: FWA

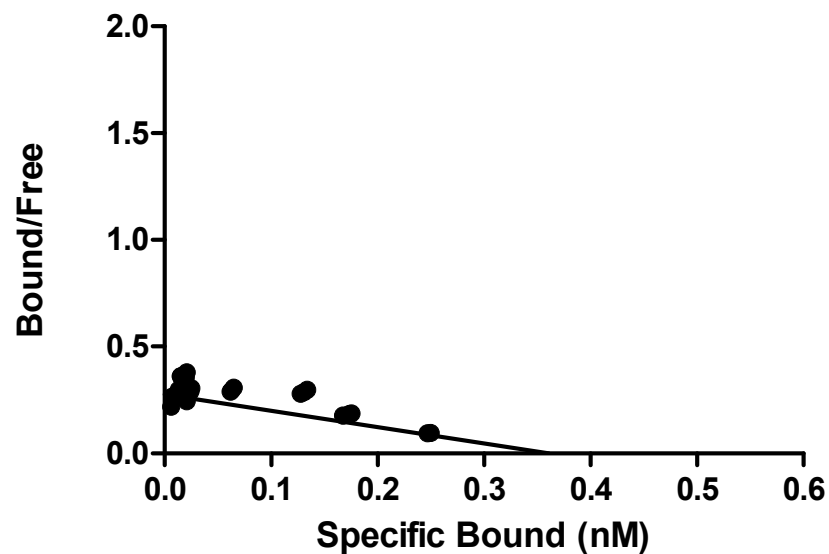
One Site - Total+NSB No Adj for ligand depletion



KdnM	1.310
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3608

Std. Error	
KdnM	0.04429
BmaxnM	0.005443

Scatchard Plot



Laboratory: Missouri, Run ID: 1017, Run Date: 12/21/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1323.573000	277	0
1323.573000	238	0
1323.573000	238	0
2242.644000	594	0
2242.644000	515	0
2242.644000	594	0
3026.882000	832	40
3026.882000	872	119
3026.882000	872	0
4193.607000	991	0
4193.607000	832	40
4193.607000	951	0
10921.540000	2615	158
10921.540000	2694	198
10921.540000	2576	119
23276.720000	5547	475
23276.720000	5429	436
23276.720000	5666	396
44189.720000	7568	674
44189.720000	7489	674
44189.720000	7251	792
113323.700000	11650	1902
113323.700000	11650	1981
113323.700000	11769	2140

Outliers

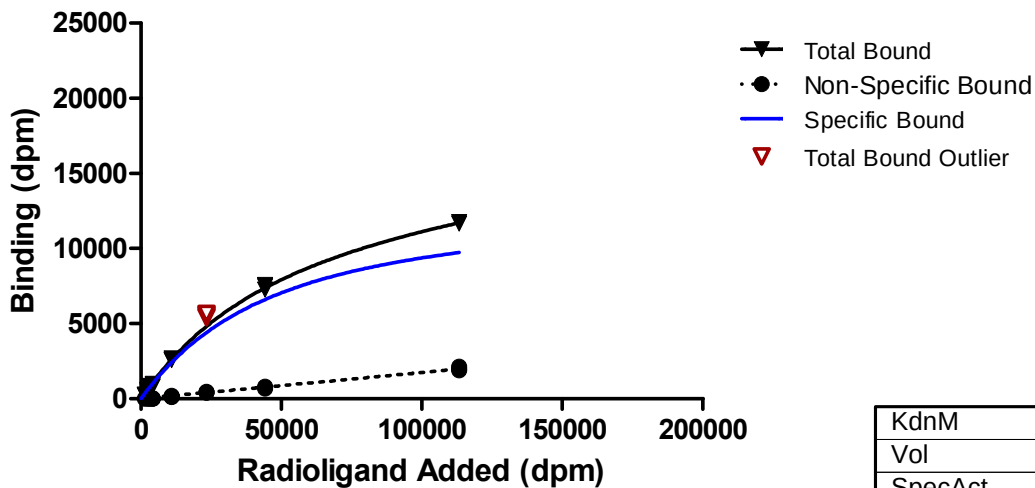
Total Added (dpm)	Total Bound (dpm)
23276.720	5547.000
23276.720	5429.000
23276.720	5666.000
44189.720	7568.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdN	1.310	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxN	0.3608	(not used)	
NS	0.01816	0.01816	0.01816
background	-54.54	-54.54	-54.54
kD	1.310e-009	(not used)	
BmaxM	3.608e-010	(not used)	
Bmax/Kd	0.2755	(not used)	
Std. Error			
KdN	0.04429	(not used)	
BmaxN	0.005443	(not used)	
NS	0.0004576	0.0004576	0.0004576
background	18.14	18.14	18.14
Bmax/Kd	0.005695	(not used)	
95% Confidence Intervals			
KdN	1.220 to 1.399	(not used)	
BmaxN	0.3498 to 0.3718	(not used)	
NS	0.01724 to 0.01909	0.01724 to 0.01909	0.01724 to 0.01909
background	-91.20 to -17.88	-91.20 to -17.88	-91.20 to -17.88
kD	1.220e-009 to 1.399e-009	(not used)	
BmaxM	3.498e-010 to 3.718e-010	(not used)	
Bmax/Kd	0.2640 to 0.2870	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9994	0.9917	0.9993
Absolute Sum of Squares	196227	83104	279330
Sy.x			83.57
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	20	24	
Outliers (excluded, Q=1.0%)	4	0	

Laboratory: Missouri, Run ID: 1017, Run Date: 12/21/08
Protocol: FWA

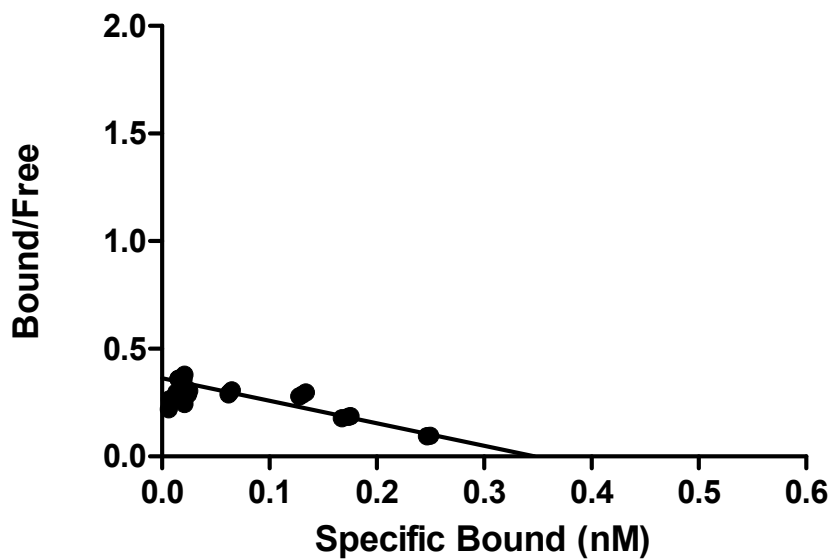
One Site - Total+NSB account for ligand depletion



KdnM	0.9550
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3467

Std. Error	
KdnM	0.03019
BmaxnM	0.004613

Scatchard Plot



Laboratory: Missouri, Run ID: 1017, Run Date: 12/21/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1323.573000	277	0
1323.573000	238	0
1323.573000	238	0
2242.644000	594	0
2242.644000	515	0
2242.644000	594	0
3026.882000	832	40
3026.882000	872	119
3026.882000	872	0
4193.607000	991	0
4193.607000	832	40
4193.607000	951	0
10921.540000	2615	158
10921.540000	2694	198
10921.540000	2576	119
23276.720000	5547	475
23276.720000	5429	436
23276.720000	5666	396
44189.720000	7568	674
44189.720000	7489	674
44189.720000	7251	792
113323.700000	11650	1902
113323.700000	11650	1981
113323.700000	11769	2140

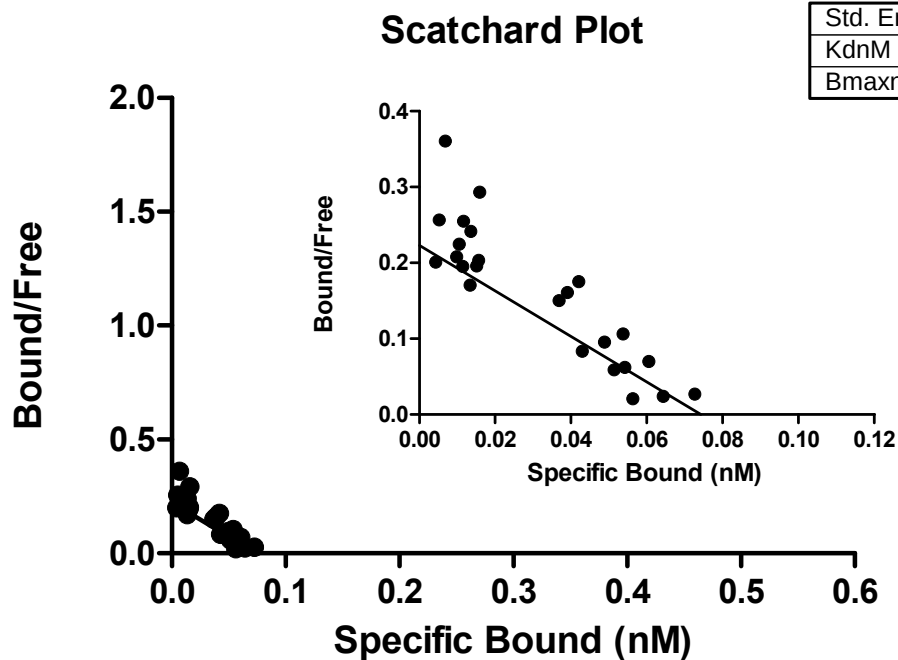
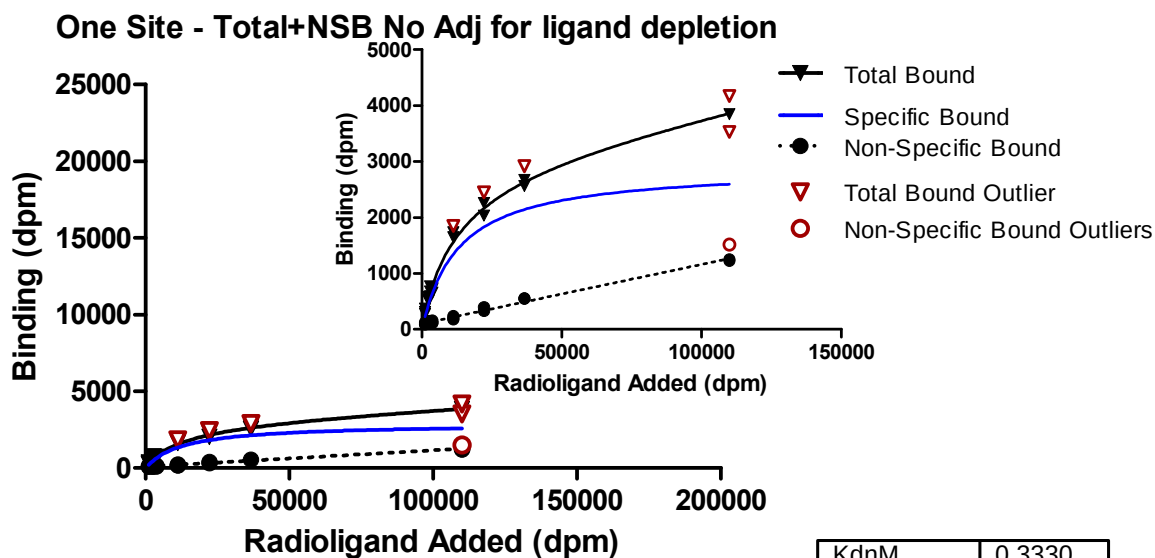
Outliers

Total Added (dpm)	Total Bound (dpm)
23276.720	5547.000
23276.720	5429.000
23276.720	5666.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.9550	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3467	(not used)	
NS	0.01776	0.01776	0.01776
BmaxM	3.467e-010	(not used)	
Bmax/Kd	0.3630	(not used)	
Std. Error			
KdnM	0.03019	(not used)	
BmaxnM	0.004613	(not used)	
NS	0.0004217	0.0004217	0.0004217
Bmax/Kd	0.007403	(not used)	
95% Confidence Intervals			
KdnM	0.8940 to 1.016	(not used)	
BmaxnM	0.3374 to 0.3560	(not used)	
NS	0.01691 to 0.01861	0.01691 to 0.01861	0.01691 to 0.01861
BmaxM	3.374e-010 to 3.560e-010	(not used)	
Bmax/Kd	0.3481 to 0.3780	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9993	0.9912	0.9993
Absolute Sum of Squares	236044	88711	324755
Sy.x			87.93
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	21	24	
Outliers (excluded, Q=1.0%)	3	0	

Laboratory: Daniel Dietrich, Run ID: #04, Run Date: 8/14/2007
Protocol: FWA



Laboratory: Daniel Dietrich, Run ID: #04, Run Date: 8/14/2007

Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1107.5	309	129
1107.5	370	97
1107.5	272	85
2359.1	510	126
2359.1	535	103
2359.1	579	148
2883.3	677	147
2883.3	591	146
2883.3	765	138
3727.8	653	110
3727.8	736	120
3727.8	718	155
11209.0	1730	241
11209.0	1846	179
11209.0	1644	199
22179.4	2031	326
22179.4	2448	329
22179.4	2255	396
36665.5	2914	547
36665.5	2667	553
36665.5	2559	552
109971.5	3528	1252
109971.5	3842	1516
109971.5	4168	1221

Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
11209.0	1846	
22179.4	2448	
36665.5	2914	
109971.5	3528	
109971.5	4168	
109971.5		1516

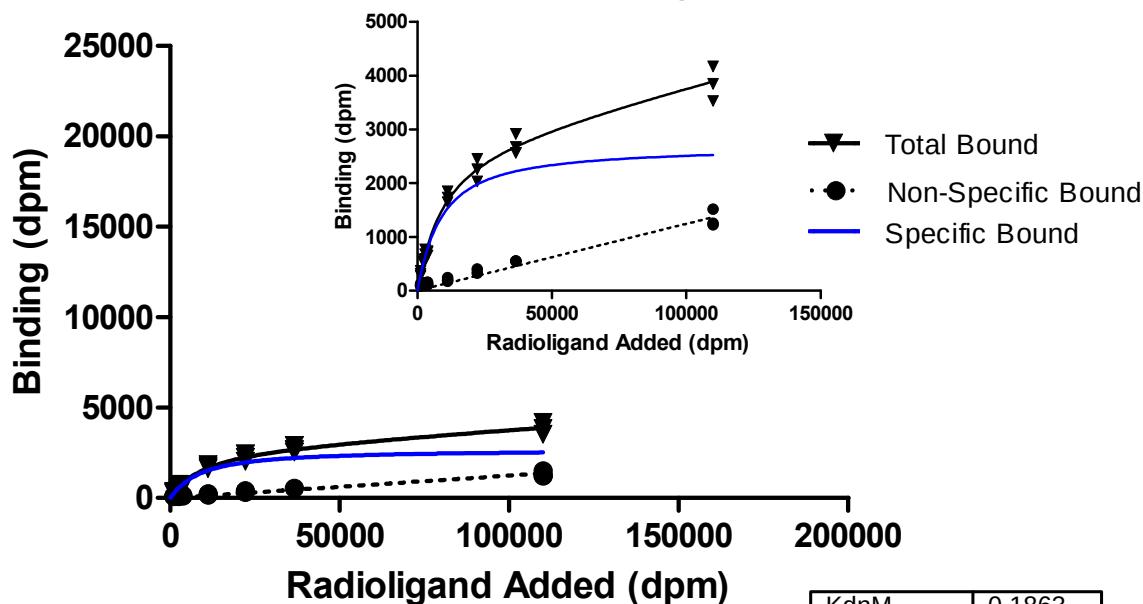
Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdM	0.3330	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.07421	(not used)	
NS	0.01060	0.01060	0.01060
background	98.77	98.77	98.77
kdM	3.330e-010	(not used)	
BmaxM	7.421e-011	(not used)	
Bmax/Kd	0.2229	(not used)	
Std. Error			
KdM	0.02401	(not used)	
BmaxM	0.002017	(not used)	
NS	0.0004157	0.0004157	0.0004157
background	14.81	14.81	14.81
Bmax/Kd	0.01135	(not used)	
95% Confidence Intervals			
KdM	0.2843 to 0.3816	(not used)	
BmaxM	0.07013 to 0.07830	(not used)	
NS	0.009754 to 0.01144	0.009754 to 0.01144	0.009754 to 0.01144
background	68.77 to 128.8	68.77 to 128.8	68.77 to 128.8
kdM	2.843e-010 to 3.816e-010	(not used)	
BmaxM	7.013e-011 to 7.830e-011	(not used)	
Bmax/Kd	0.1999 to 0.2459	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9935	0.9895	0.9951
Absolute Sum of Squares	119842	24683	144525
Sy.x			61.67
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	19	23	
Outliers (excluded, Q=1.0%)	5	1	

Laboratory: Daniel Dietrich, Run ID: #04, Run Date: 8/14/2007

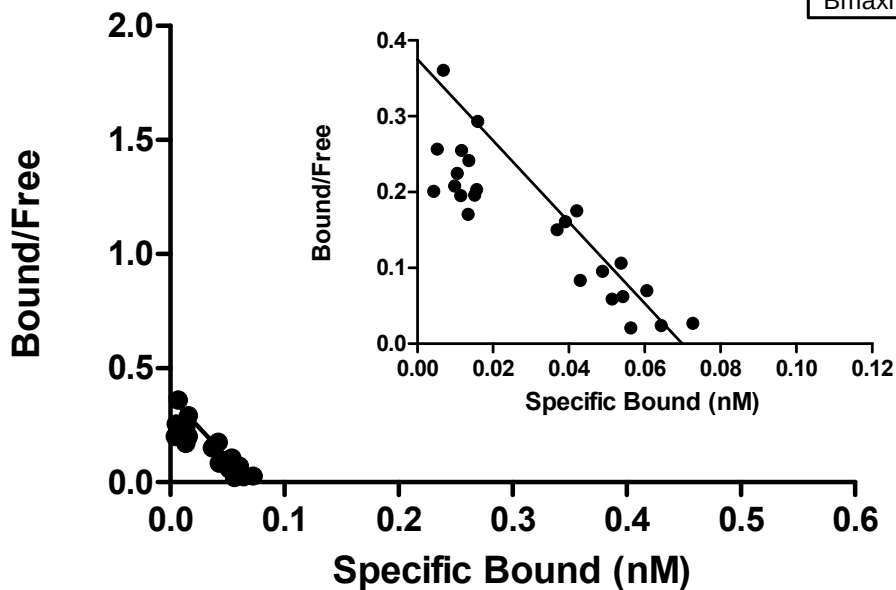
Protocol: FWA

One Site - Total+NSB account for ligand depletion



K _d nM	0.1863
Vol	= 0.1600
SpecAct	= 244.2
B _{max} nM	0.06986
Std. Error	
K _d nM	0.01994
B _{max} nM	0.002428

Scatchard Plot



Laboratory: Daniel Dietrich, Run ID: #04, Run Date: 8/14/2007

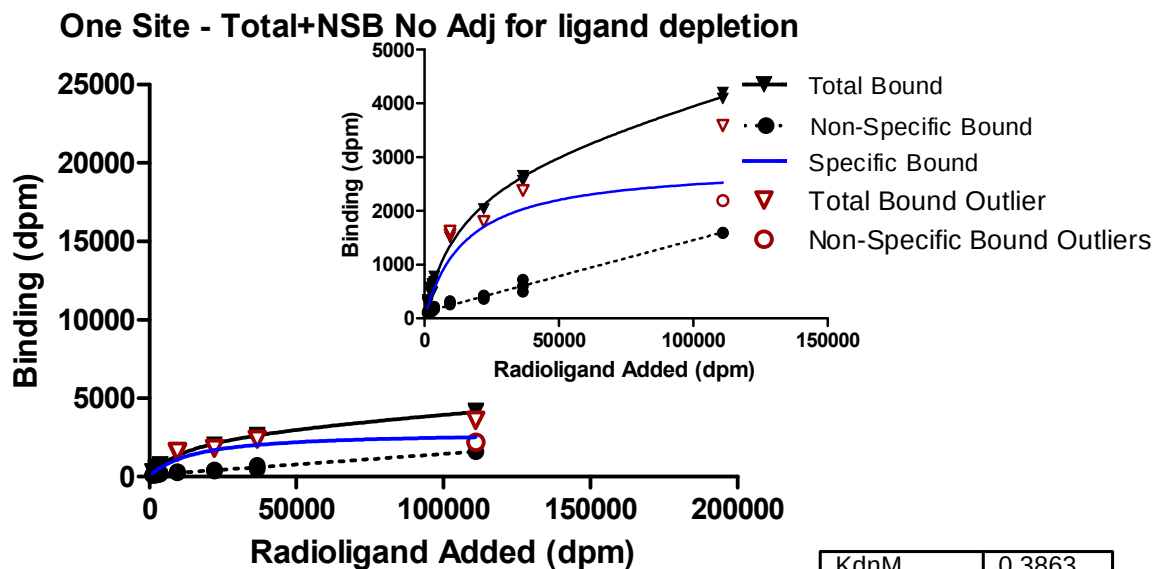
Protocol: FWA Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1107.5	309	129
1107.5	370	97
1107.5	272	85
2359.1	510	126
2359.1	535	103
2359.1	579	148
2883.3	677	147
2883.3	591	146
2883.3	765	138
3727.8	653	110
3727.8	736	120
3727.8	718	155
11209.0	1730	241
11209.0	1846	179
11209.0	1644	199
22179.4	2031	326
22179.4	2448	329
22179.4	2255	396
36665.5	2914	547
36665.5	2667	553
36665.5	2559	552
109971.5	3528	1252
109971.5	3842	1516
109971.5	4168	1221

Nonlinear Fit Results

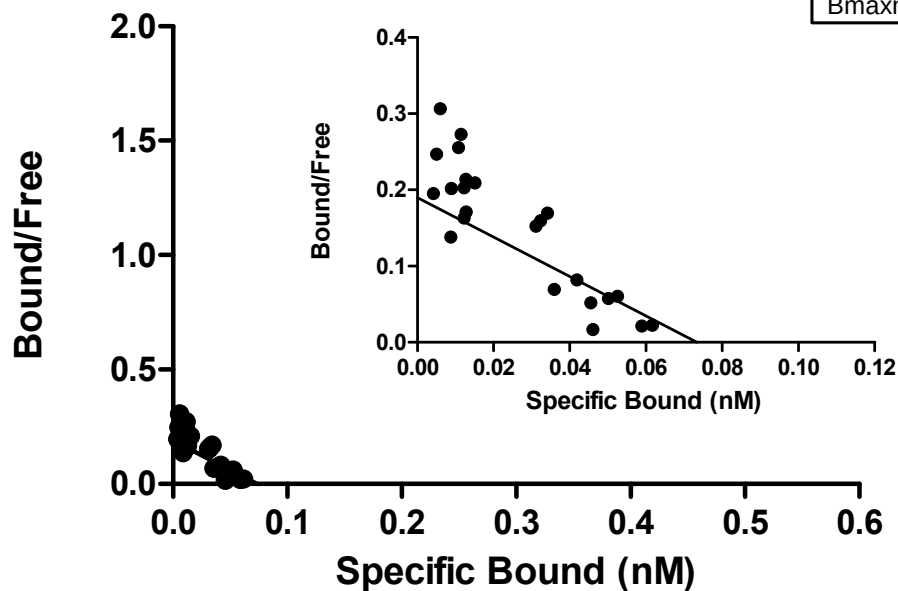
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.1863	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.06986	(not used)	
NS	0.01257	0.01257	0.01257
BmaxM	6.986e-011	(not used)	
Bmax/Kd	0.3750	(not used)	
Std. Error			
KdnM	0.01994	(not used)	
BmaxnM	0.002428	(not used)	
NS	0.0005901	0.0005901	0.0005901
Bmax/Kd	0.03073	(not used)	
95% Confidence Intervals			
KdnM	0.1461 to 0.2265	(not used)	
BmaxnM	0.06496 to 0.07475	(not used)	
NS	0.01138 to 0.01376	0.01138 to 0.01376	0.01138 to 0.01376
BmaxM	6.496e-011 to 7.475e-011	(not used)	
Bmax/Kd	0.3131 to 0.4369	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9860	0.9383	0.9874
Absolute Sum of Squares	473747	229688	703435
Sy.x			125.0
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Daniel Dietrich, Run ID: #05b, Run Date: 8/15/2007
Protocol: FWA



KdnM	0.3863
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.07330

Scatchard Plot



Std. Error	
KdnM	0.02783
BmaxnM	0.001891

Laboratory: Daniel Dietrich, Run ID: #05b, Run Date: 8/15/2007

Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1097.3	303	106
1097.3	269	94
1097.3	340	123
2205.5	478	117
2205.5	552	148
2205.5	574	122
2969.4	641	149
2969.4	487	149
2969.4	620	132
3596.2	775	170
3596.2	662	168
3596.2	683	215
9475.0	1503	255
9475.0	1551	288
9475.0	1620	320
22011.5	1804	415
22011.5	1804	361
22011.5	2031	423
36631.7	2379	593
36631.7	2653	489
36631.7	2560	720
110997.2	4193	2188
110997.2	4089	1591
110997.2	3586	1584

Outliers

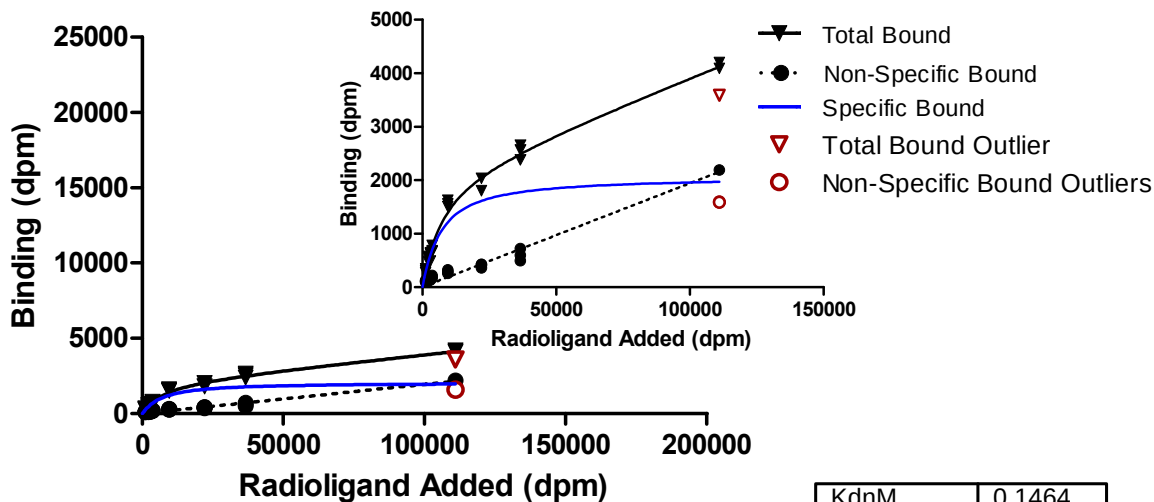
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
9475.0	1551	
9475.0	1620	
22011.5	1804	
22011.5	1804	
36631.7	2379	
110997.2	3586	
110997.2		2188

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdN	0.3863	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.07330	(not used)	
NS	0.01340	0.01340	0.01340
background	112.6	112.6	112.6
kdM	3.863e-010	(not used)	
BmaxM	7.330e-011	(not used)	
Bmax/Kd	0.1897	(not used)	
Std. Error			
KdN	0.02783	(not used)	
BmaxM	0.001891	(not used)	
NS	0.0003878	0.0003878	0.0003878
background	13.81	13.81	13.81
Bmax/Kd	0.01002	(not used)	
95% Confidence Intervals			
KdN	0.3299 to 0.4428	(not used)	
BmaxM	0.06947 to 0.07714	(not used)	
NS	0.01261 to 0.01418	0.01261 to 0.01418	0.01261 to 0.01418
background	84.57 to 140.6	84.57 to 140.6	84.57 to 140.6
kdM	3.299e-010 to 4.428e-010	(not used)	
BmaxM	6.947e-011 to 7.714e-011	(not used)	
Bmax/Kd	0.1694 to 0.2101	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9971	0.9883	0.9969
Absolute Sum of Squares	79686	44806	124492
Sy.x			58.01
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	18	23	
Outliers (excluded, Q=1.0%)	6	1	

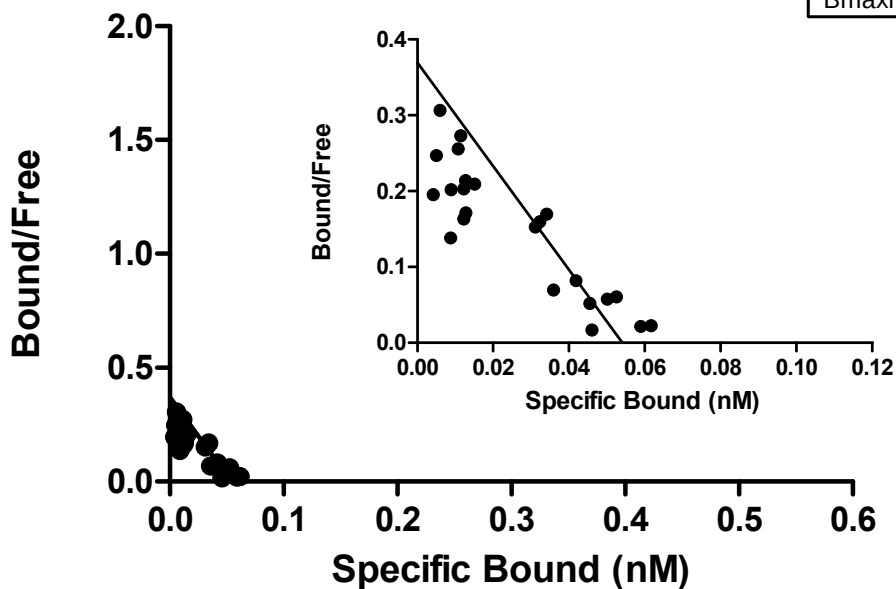
Laboratory: Daniel Dietrich, Run ID: #05b, Run Date: 8/15/2007
Protocol: FWA

One Site - Total+NSB account for ligand depletion



KdnM	0.1464
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.05403
Std. Error	
KdnM	0.01789
BmaxnM	0.002299

Scatchard Plot



Laboratory: Daniel Dietrich, Run ID: #05b, Run Date: 8/15/2007

Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1097.3	303	106
1097.3	269	94
1097.3	340	123
2205.5	478	117
2205.5	552	148
2205.5	574	122
2969.4	641	149
2969.4	487	149
2969.4	620	132
3596.2	775	170
3596.2	662	168
3596.2	683	215
9475.0	1503	255
9475.0	1551	288
9475.0	1620	320
22011.5	1804	415
22011.5	1804	361
22011.5	2031	423
36631.7	2379	593
36631.7	2653	489
36631.7	2560	720
110997.2	4193	2188
110997.2	4089	1591
110997.2	3586	1584

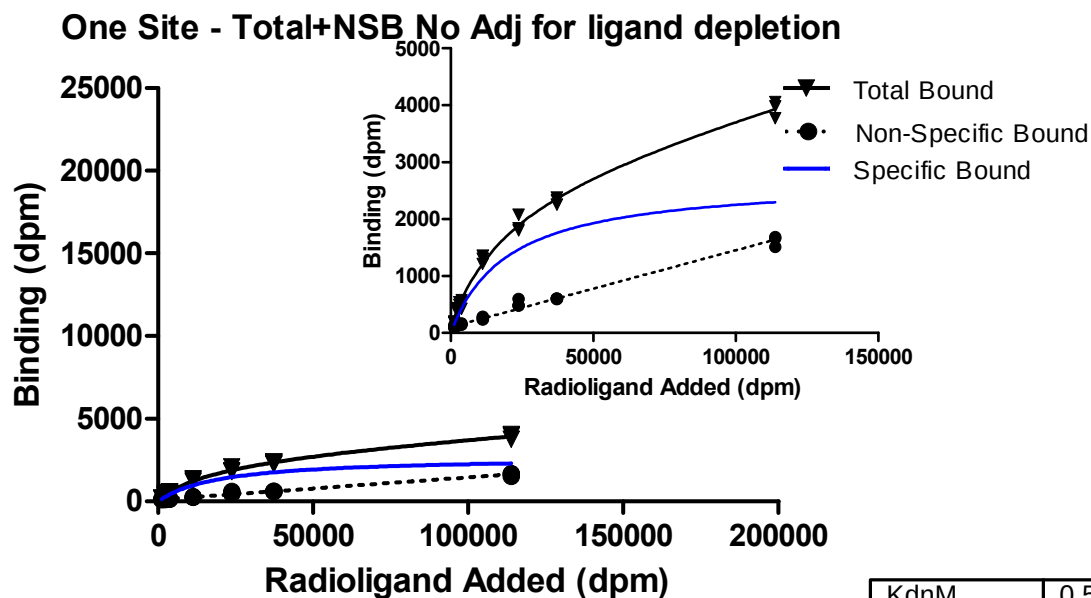
Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
110997.2	3586	
110997.2		1591
110997.2		1584

Nonlinear Fit Results

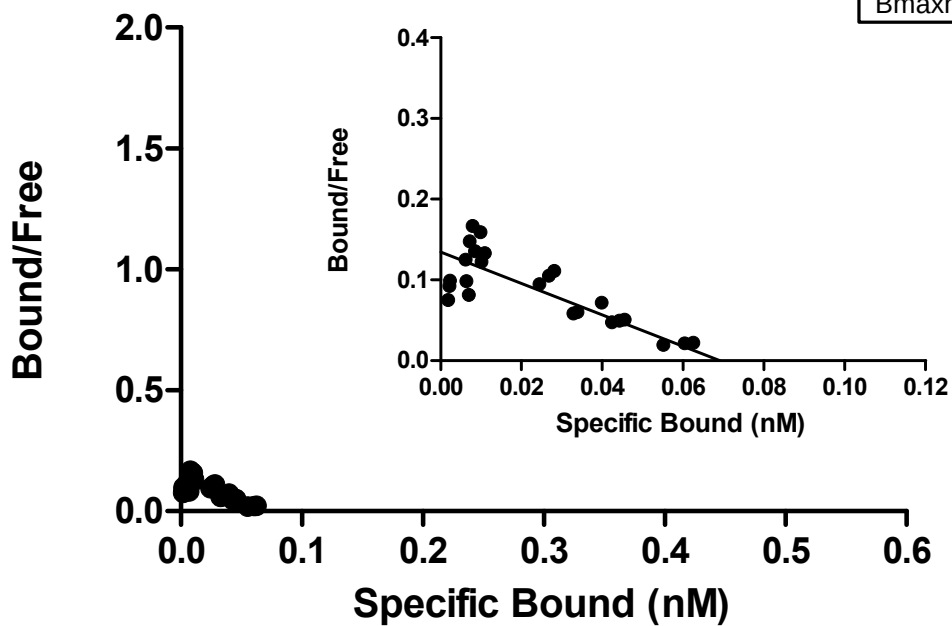
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.1464	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.05403	(not used)	
NS	0.01977	0.01977	0.01977
BmaxM	5.403e-011	(not used)	
Bmax/Kd	0.3691	(not used)	
Std. Error			
KdnM	0.01789	(not used)	
BmaxnM	0.002299	(not used)	
NS	0.0007491	0.0007491	0.0007491
Bmax/Kd	0.03380	(not used)	
95% Confidence Intervals			
KdnM	0.1103 to 0.1825	(not used)	
BmaxnM	0.04939 to 0.05867	(not used)	
NS	0.01825 to 0.02128	0.01825 to 0.02128	0.01825 to 0.02128
BmaxM	4.939e-011 to 5.867e-011	(not used)	
Bmax/Kd	0.3009 to 0.4374	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9897	0.9490	0.9888
Absolute Sum of Squares	300163	211805	511967
Sy.x			110.4
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	23	22	
Outliers (excluded, Q=1.0%)	1	2	

Laboratory: Daniel Dietrich, Run ID: #06, Run Date: 8/15/2007
Protocol: FWA



KdnM	0.5132
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.06904

Scatchard Plot



Std. Error	
KdnM	0.04535
BmaxnM	0.002345

Laboratory: Daniel Dietrich, Run ID: #06, Run Date: 8/15/2007
Protocol: FWA

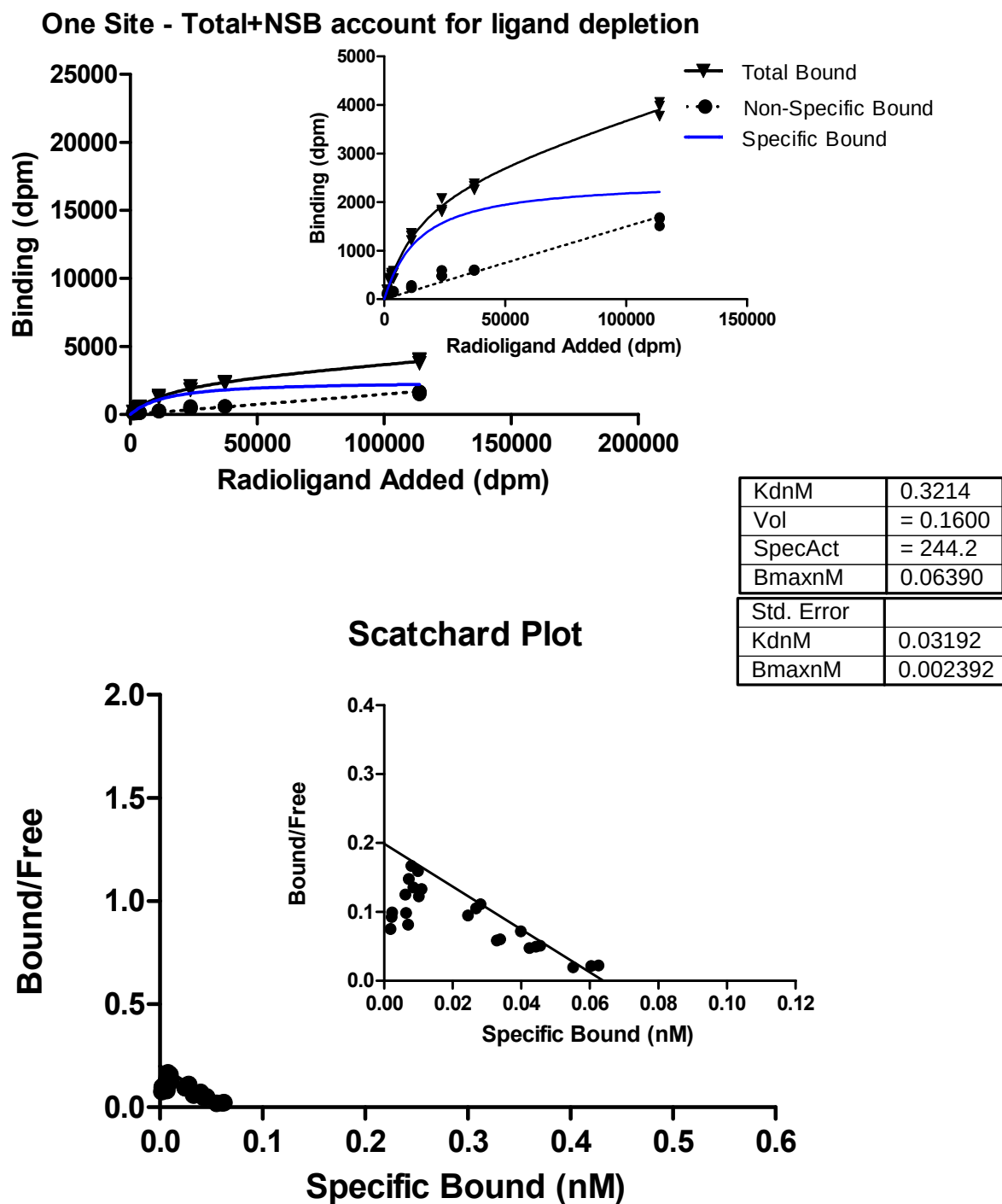
Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1112.6	178	133
1112.6	198	94
1112.6	193	97
2291.0	436	129
2291.0	406	123
2291.0	368	129
2944.3	405	162
2944.3	538	141
2944.3	488	161
3761.0	545	146
3761.0	423	163
3761.0	575	143
11249.7	1356	230
11249.7	1209	257
11249.7	1303	283
23753.2	2074	483
23753.2	1800	479
23753.2	1837	593
37235.6	2322	605
37235.6	2253	596
37235.6	2376	588
113781.3	4057	1507
113781.3	3976	1682
113781.3	3768	1660

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdN	0.5132	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.06904	(not used)	
NS	0.01350	0.01350	0.01350
background	99.42	99.42	99.42
kdM	5.132e-010	(not used)	
BmaxM	6.904e-011	(not used)	
Bmax/Kd	0.1345	(not used)	
Std. Error			
KdN	0.04535	(not used)	
BmaxM	0.002345	(not used)	
NS	0.0004105	0.0004105	0.0004105
background	16.76	16.76	16.76
Bmax/Kd	0.008226	(not used)	
95% Confidence Intervals			
KdN	0.4218 to 0.6047	(not used)	
BmaxM	0.06432 to 0.07377	(not used)	
NS	0.01267 to 0.01433	0.01267 to 0.01433	0.01267 to 0.01433
background	65.61 to 133.2	65.61 to 133.2	65.61 to 133.2
kdM	4.218e-010 to 6.047e-010	(not used)	
BmaxM	6.432e-011 to 7.377e-011	(not used)	
Bmax/Kd	0.1179 to 0.1511	(not used)	
Goodness of Fit			
Degrees of Freedom			44
R square	0.9949	0.9890	0.9953
Absolute Sum of Squares	176780	60692	237473
Sy.x			73.47
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Daniel Dietrich, Run ID: #06, Run Date: 8/15/2007
Protocol: FWA



Laboratory: Daniel Dietrich, Run ID: #06, Run Date: 8/15/2007

Protocol: FWA

Data

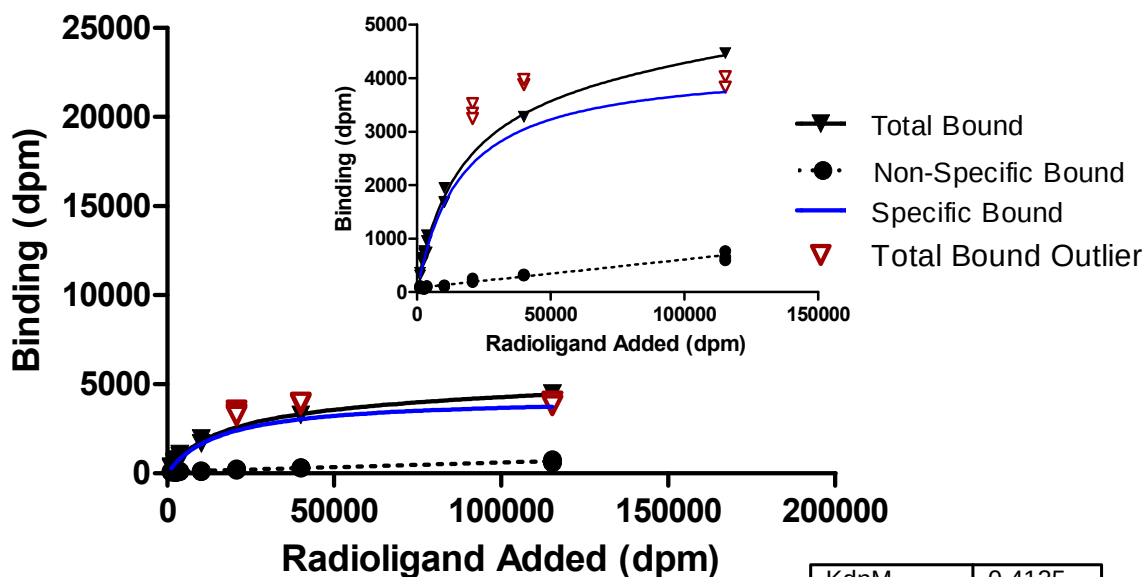
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1112.6	178	133
1112.6	198	94
1112.6	193	97
2291.0	436	129
2291.0	406	123
2291.0	368	129
2944.3	405	162
2944.3	538	141
2944.3	488	161
3761.0	545	146
3761.0	423	163
3761.0	575	143
11249.7	1356	230
11249.7	1209	257
11249.7	1303	283
23753.2	2074	483
23753.2	1800	479
23753.2	1837	593
37235.6	2322	605
37235.6	2253	596
37235.6	2376	588
113781.3	4057	1507
113781.3	3976	1682
113781.3	3768	1660

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3214	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.06390	(not used)	
NS	0.01514	0.01514	0.01514
BmaxM	6.390e-011	(not used)	
Bmax/Kd	0.1988	(not used)	
Std. Error			
KdnM	0.03192	(not used)	
BmaxnM	0.002392	(not used)	
NS	0.0004596	0.0004596	0.0004596
Bmax/Kd	0.01412	(not used)	
95% Confidence Intervals			
KdnM	0.2571 to 0.3857	(not used)	
BmaxnM	0.05908 to 0.06872	(not used)	
NS	0.01421 to 0.01607	0.01421 to 0.01607	0.01421 to 0.01607
BmaxM	5.908e-011 to 6.872e-011	(not used)	
Bmax/Kd	0.1703 to 0.2273	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9955	0.9503	0.9916
Absolute Sum of Squares	156946	273118	430064
Sy.x			97.76
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

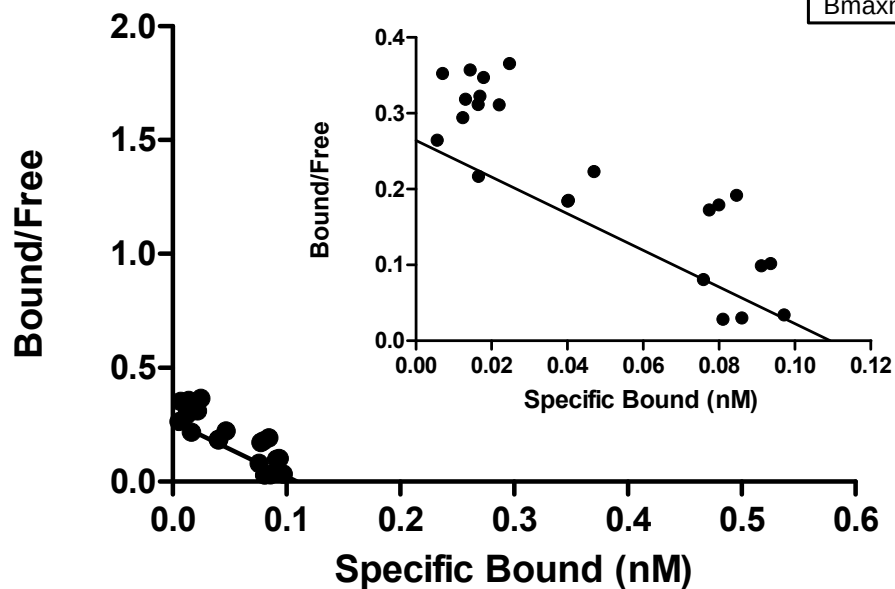
Laboratory: Daniel Dietrich, Run ID: #07(2), Run Date: 4/22/2008
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



KdnM	0.4135
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.1092

Scatchard Plot



Std. Error	
KdnM	0.02163
BmaxnM	0.002367

Laboratory: Daniel Dietrich, Run ID: #07(2), Run Date: 4/22/2008
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1148.0	366	93
1148.0	312	112
1148.0		66
2198.1	559	86
2198.1	589	59
2198.1	635	84
2770.7	710	56
2770.7	728	66
2770.7	765	84
3706.4	953	91
3706.4	740	89
3706.4	1063	109
10170.0	1947	102
10170.0	1678	127
10170.0	1684	110
20757.9	3524	185
20757.9	3344	225
20757.9	3244	253
39923.7	3876	331
39923.7	3972	308
39923.7	3279	312
115293.1	4029	653
115293.1	3832	588
115293.1	4463	766

Outliers

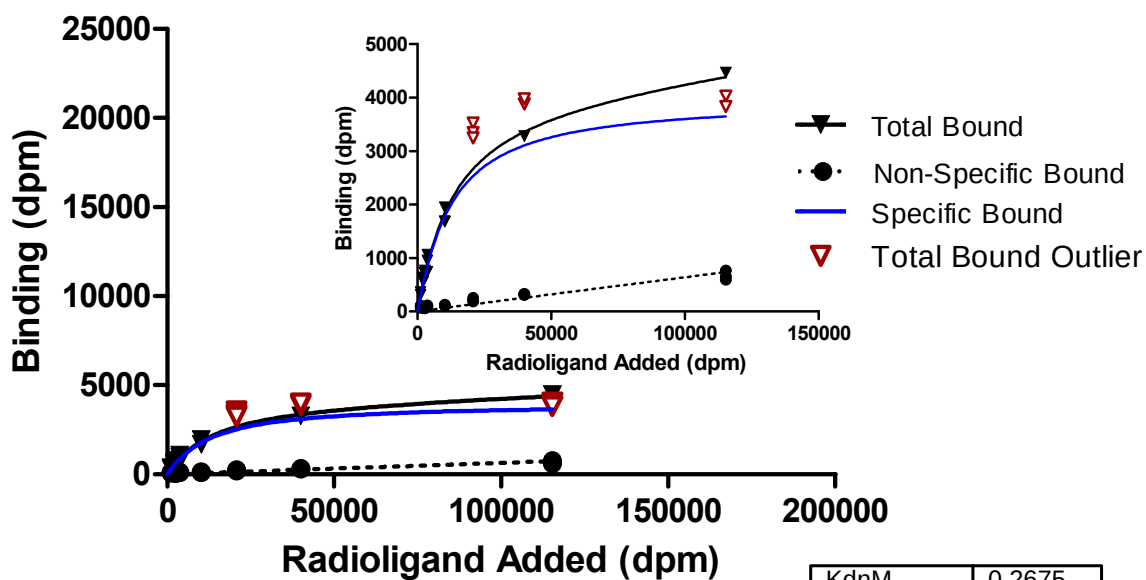
Total Added (dpm)	Total Bound (dpm)
20757.9	3524
20757.9	3344
20757.9	3244
39923.7	3876
39923.7	3972
115293.1	4029
115293.1	3832

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdnM	0.4135	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.1092	(not used)	
NS	0.005297	0.005297	0.005297
background	77.31	77.31	77.31
kdm	4.135e-010	(not used)	
BmaxM	1.092e-010	(not used)	
Bmax/Kd	0.2641	(not used)	
Std. Error			
KdnM	0.02163	(not used)	
BmaxnM	0.002367	(not used)	
NS	0.0003522	0.0003522	0.0003522
background	14.97	14.97	14.97
Bmax/Kd	0.009734	(not used)	
95% Confidence Intervals			
KdnM	0.3696 to 0.4574	(not used)	
BmaxnM	0.1044 to 0.1140	(not used)	
NS	0.004582 to 0.006011	0.004582 to 0.006011	0.004582 to 0.006011
background	46.92 to 107.7	46.92 to 107.7	46.92 to 107.7
kdm	3.696e-010 to 4.574e-010	(not used)	
BmaxM	1.044e-010 to 1.140e-010	(not used)	
Bmax/Kd	0.2443 to 0.2838	(not used)	
Goodness of Fit			
Degrees of Freedom			36
R square	0.9941	0.9654	0.9953
Absolute Sum of Squares	115179	31489	146669
Sy.x			63.83
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	16	24	
Outliers (excluded, Q=1.0%)	7	0	

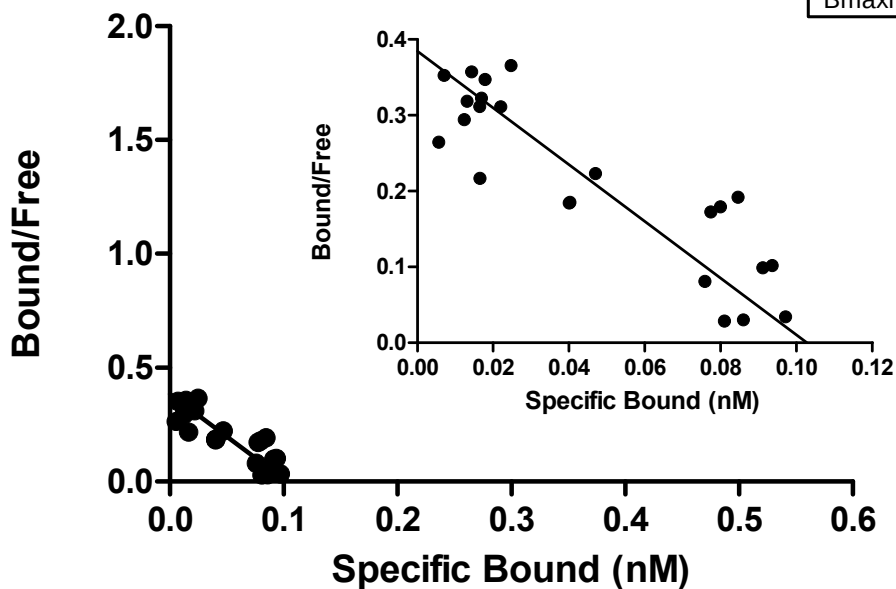
Laboratory: Daniel Dietrich, Run ID: #07(2), Run Date: 4/22/2008
Protocol: FWA

One Site - Total+NSB account for ligand depletion



KdnM	0.2675
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.1027
Std. Error	
KdnM	0.01748
BmaxnM	0.002765

Scatchard Plot



Laboratory: Daniel Dietrich, Run ID: #07(2), Run Date: 4/22/2008

Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1148.0	366	93
1148.0	312	112
1148.0		66
2198.1	559	86
2198.1	589	59
2198.1	635	84
2770.7	710	56
2770.7	728	66
2770.7	765	84
3706.4	953	91
3706.4	740	89
3706.4	1063	109
10170.0	1947	102
10170.0	1678	127
10170.0	1684	110
20757.9	3524	185
20757.9	3344	225
20757.9	3244	253
39923.7	3876	331
39923.7	3972	308
39923.7	3279	312
115293.1	4029	653
115293.1	3832	588
115293.1	4463	766

Outliers

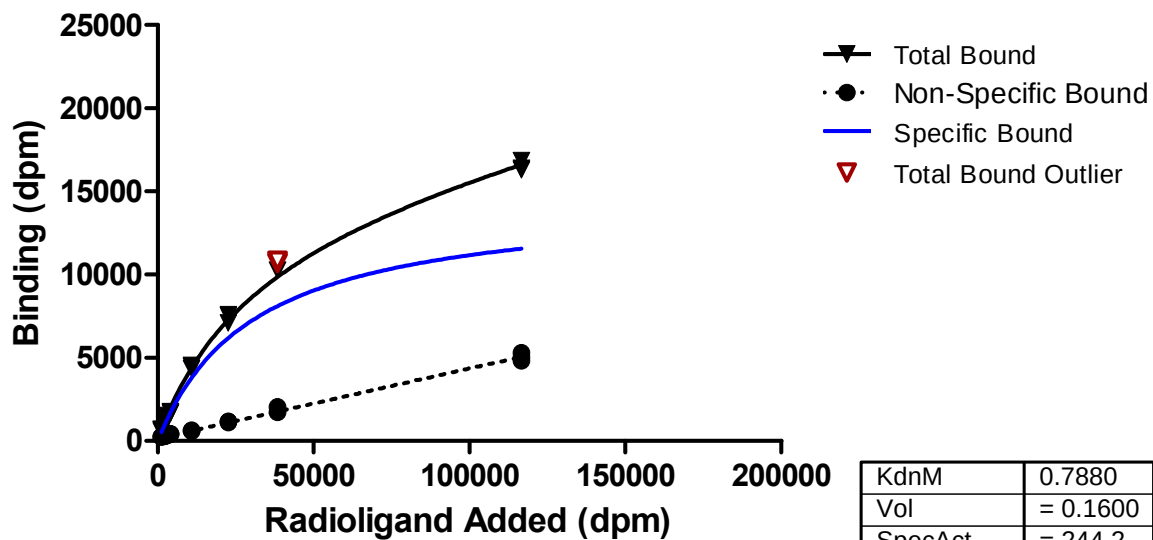
Total Added (dpm)	Total Bound (dpm)
20757.9	3524
20757.9	3344
20757.9	3244
39923.7	3876
39923.7	3972
115293.1	4029
115293.1	3832

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2675	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.1027	(not used)	
NS	0.006403	0.006403	0.006403
BmaxM	1.027e-010	(not used)	
Bmax/Kd	0.3841	(not used)	
Std. Error			
KdnM	0.01748	(not used)	
BmaxnM	0.002765	(not used)	
NS	0.0004088	0.0004088	0.0004088
Bmax/Kd	0.01817	(not used)	
95% Confidence Intervals			
KdnM	0.2321 to 0.3029	(not used)	
BmaxnM	0.09714 to 0.1084	(not used)	
NS	0.005575 to 0.007232	0.005575 to 0.007232	0.005575 to 0.007232
BmaxM	9.714e-011 to 1.084e-010	(not used)	
Bmax/Kd	0.3473 to 0.4209	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9921	0.8546	0.9909
Absolute Sum of Squares	153695	132518	286212
Sy.x			87.95
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	16	24	
Outliers (excluded, Q=1.0%)	7	0	

Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 3/4/08
Protocol: FWA

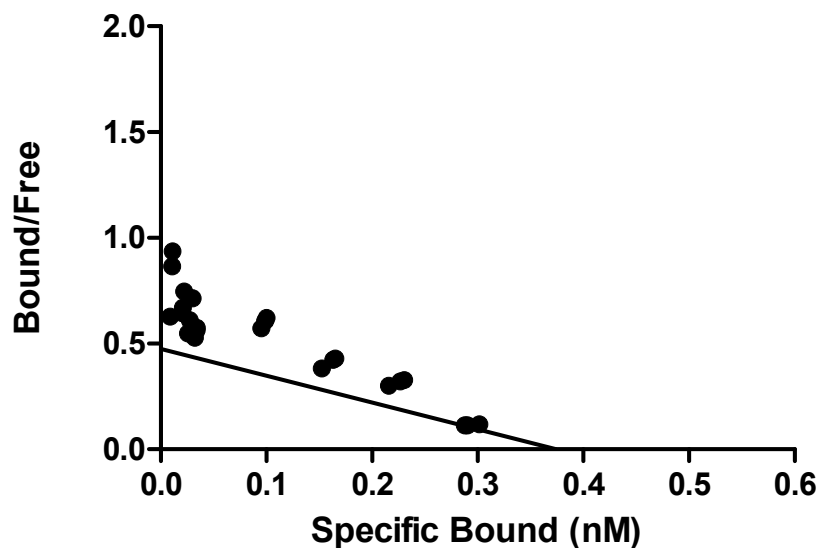
One Site - Total+NSB No Adj for ligand depletion



K _{dn} M	0.7880
Vol	= 0.1600
SpecAct	= 244.2
B _{max} nM	0.3738

Std. Error	
K _{dn} M	0.03534
B _{max} nM	0.007244

Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 3/4/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1156.741	602	230
1156.741	673	266
1156.741	690	266
2323.317	1097	336
2323.317	1168	283
2323.317	1115	301
3175.200	1416	336
3175.200	1345	354
3175.200	1522	336
4076.253	1682	407
4076.253	1752	425
4076.253	1735	425
10833.540	4337	584
10833.540	4478	637
10833.540	4532	637
22635.740	7594	1151
22635.740	7523	1168
22635.740	7098	1115
38348.250	10692	2053
38348.250	10267	1717
38348.250	10833	1717
116648.900	16834	5027
116648.900	16303	5293
116648.900	16392	4832

Outliers

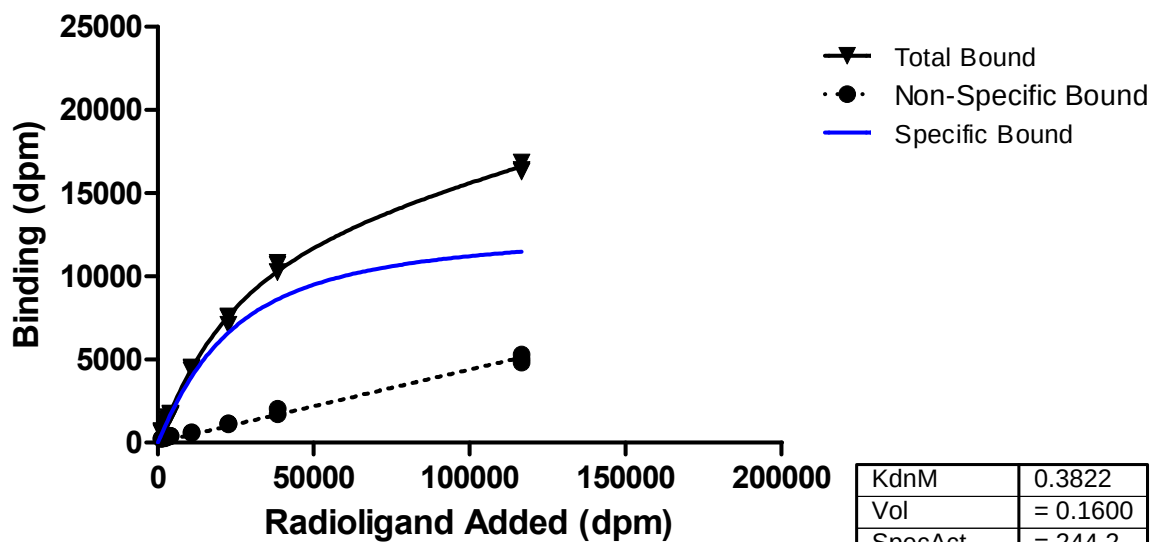
Total Added (dpm)	Total Bound (dpm)
38348.250	10692.000
38348.250	10833.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.7880	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3738	(not used)	
NS	0.04214	0.04214	0.04214
background	136.8	136.8	136.8
kDM	7.880e-010	(not used)	
BmaxM	3.738e-010	(not used)	
Bmax/Kd	0.4744	(not used)	
Std. Error			
KdM	0.03534	(not used)	
BmaxM	0.007244	(not used)	
NS	0.0009752	0.0009752	0.0009752
background	39.54	39.54	39.54
Bmax/Kd	0.01402	(not used)	
95% Confidence Intervals			
KdM	0.7166 to 0.8593	(not used)	
BmaxM	0.3592 to 0.3884	(not used)	
NS	0.04018 to 0.04411	0.04018 to 0.04411	0.04018 to 0.04411
background	56.96 to 216.6	56.96 to 216.6	56.96 to 216.6
kDM	7.166e-010 to 8.593e-010	(not used)	
BmaxM	3.592e-010 to 3.884e-010	(not used)	
Bmax/Kd	0.4461 to 0.5027	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9983	0.9947	0.9984
Absolute Sum of Squares	1.059e+006	298008	1.357e+006
Sy.x			179.8
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 3/4/08
Protocol: FWA

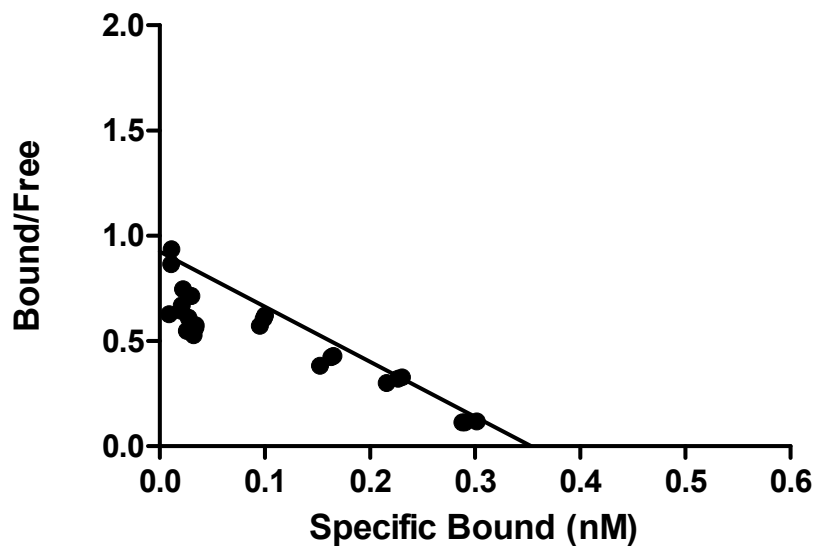
One Site - Total+NSB account for ligand depletion



KdnM	0.3822
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.3533

Std. Error	
KdnM	0.01916
BmaxnM	0.006393

Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 3/4/08
Protocol: FWA

Data

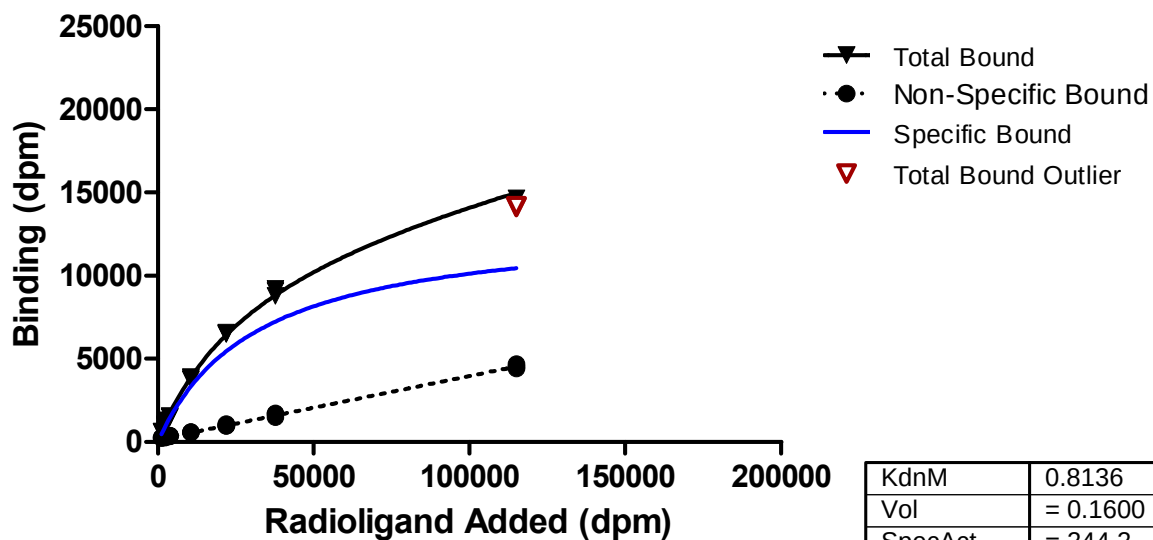
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1156.741	602	230
1156.741	673	266
1156.741	690	266
2323.317	1097	336
2323.317	1168	283
2323.317	1115	301
3175.200	1416	336
3175.200	1345	354
3175.200	1522	336
4076.253	1682	407
4076.253	1752	425
4076.253	1735	425
10833.540	4337	584
10833.540	4478	637
10833.540	4532	637
22635.740	7594	1151
22635.740	7523	1168
22635.740	7098	1115
38348.250	10692	2053
38348.250	10267	1717
38348.250	10833	1717
116648.900	16834	5027
116648.900	16303	5293
116648.900	16392	4832

Nonlinear Fit Results

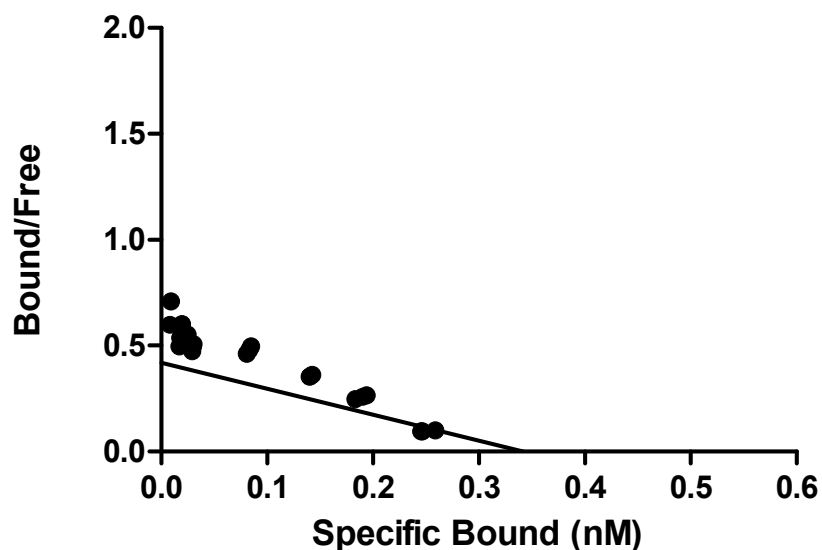
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3822	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3533	(not used)	
NS	0.04591	0.04591	0.04591
BmaxM	3.533e-010	(not used)	
Bmax/Kd	0.9245	(not used)	
Std. Error			
KdnM	0.01916	(not used)	
BmaxnM	0.006393	(not used)	
NS	0.001053	0.001053	0.001053
Bmax/Kd	0.03367	(not used)	
95% Confidence Intervals			
KdnM	0.3436 to 0.4208	(not used)	
BmaxnM	0.3405 to 0.3662	(not used)	
NS	0.04379 to 0.04803	0.04379 to 0.04803	0.04379 to 0.04803
BmaxM	3.405e-010 to 3.662e-010	(not used)	
Bmax/Kd	0.8566 to 0.9924	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9984	0.9831	0.9979
Absolute Sum of Squares	1.061e+006	942877	2.004e+006
Sy.x			211.0
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 3/6/08
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 3/6/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1135.685	593	244
1135.685	593	279
1135.685	628	279
2300.428	1046	314
2300.428	994	296
2300.428	959	262
3076.520	1255	314
3076.520	1273	331
3076.520	1308	349
3887.724	1552	384
3887.724	1534	366
3887.724	1499	349
10586.810	3748	575
10586.810	3905	593
10586.810	3836	593
21941.240	6573	976
21941.240	6486	994
21941.240	6503	1064
37730.660	9066	1499
37730.660	9206	1674
37730.660	8787	1726
115023.800	14140	4673
115023.800	14663	4533
115023.800	14175	4428

Outliers

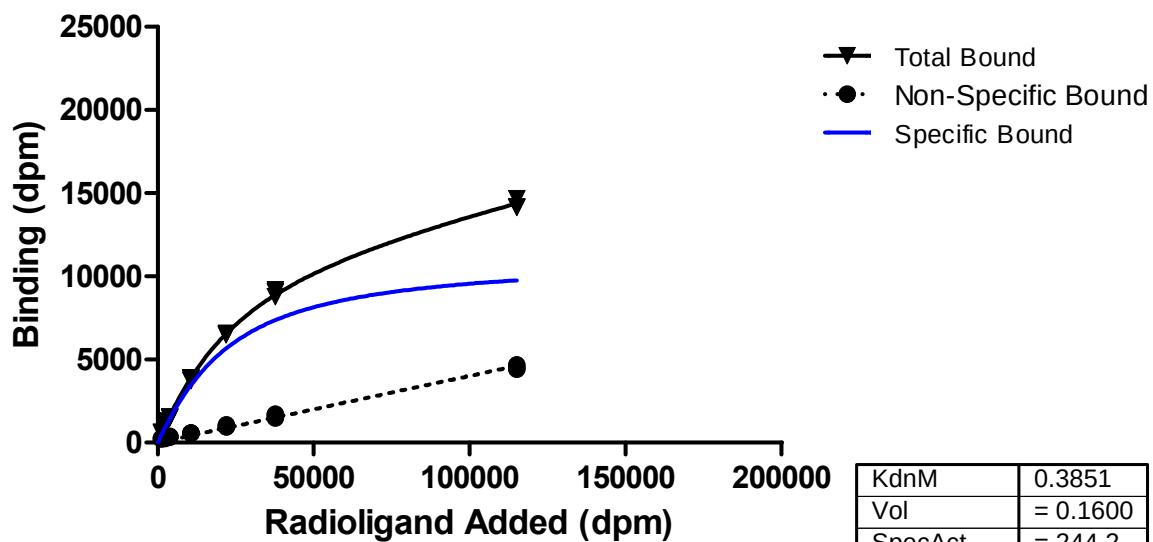
Total Added (dpm)	Total Bound (dpm)
115023.800	14140.000
115023.800	14175.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
K _d nM	0.8136	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
B _{max} nM	0.3414	(not used)	
NS	0.03816	0.03816	0.03816
background	143.3	143.3	143.3
k _d M	8.136e-010	(not used)	
B _{max} M	3.414e-010	(not used)	
B _{max} /K _d	0.4196	(not used)	
Std. Error			
K _d nM	0.03652	(not used)	
B _{max} nM	0.007437	(not used)	
NS	0.0007512	0.0007512	0.0007512
background	29.96	29.96	29.96
B _{max} /K _d	0.01096	(not used)	
95% Confidence Intervals			
K _d nM	0.7399 to 0.8873	(not used)	
B _{max} nM	0.3264 to 0.3564	(not used)	
NS	0.03664 to 0.03968	0.03664 to 0.03968	0.03664 to 0.03968
background	82.78 to 203.7	82.78 to 203.7	82.78 to 203.7
k _d M	7.399e-010 to 8.873e-010	(not used)	
B _{max} M	3.264e-010 to 3.564e-010	(not used)	
B _{max} /K _d	0.3975 to 0.4418	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9979	0.9968	0.9982
Absolute Sum of Squares	641976	143880	785856
Sy.x			136.8
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 3/6/08
Protocol: FWA

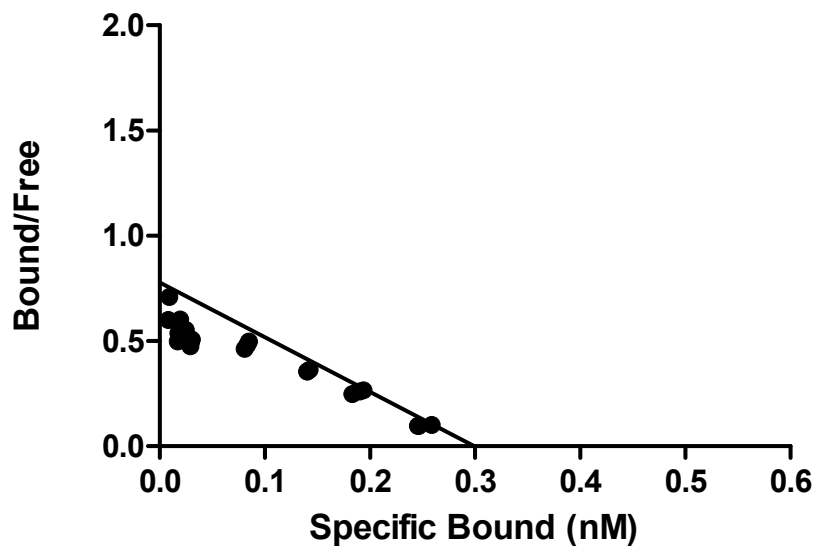
One Site - Total+NSB account for ligand depletion



KdnM	0.3851
Vol	= 0.1600
SpecAct	= 244.2
BmaxnM	0.2992

Std. Error	
KdnM	0.01712
BmaxnM	0.004902

Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 3/6/08
Protocol: FWA

Data

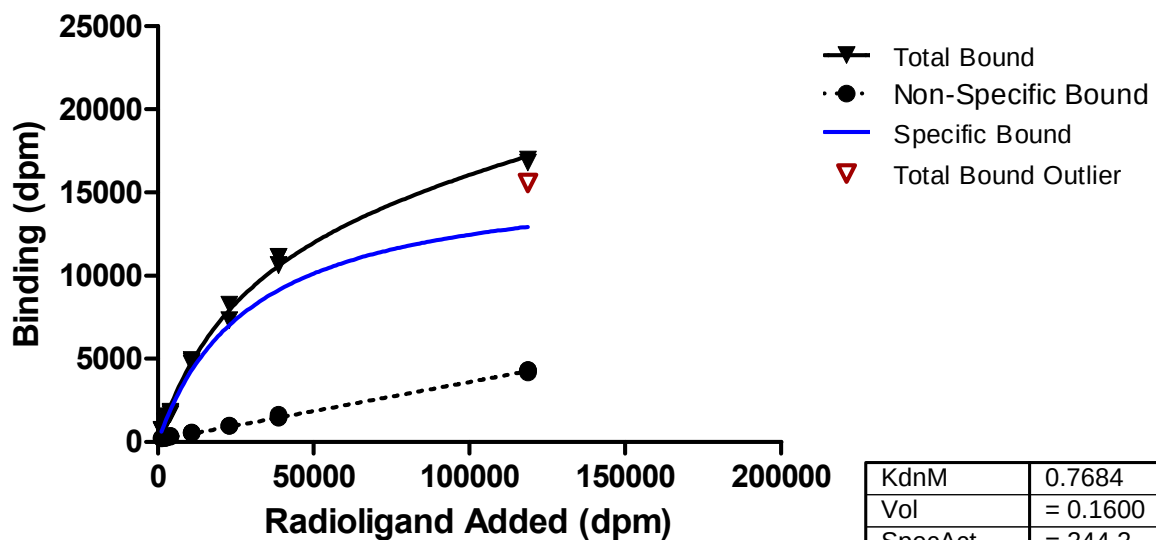
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1135.685	593	244
1135.685	593	279
1135.685	628	279
2300.428	1046	314
2300.428	994	296
2300.428	959	262
3076.520	1255	314
3076.520	1273	331
3076.520	1308	349
3887.724	1552	384
3887.724	1534	366
3887.724	1499	349
10586.810	3748	575
10586.810	3905	593
10586.810	3836	593
21941.240	6573	976
21941.240	6486	994
21941.240	6503	1064
37730.660	9066	1499
37730.660	9206	1674
37730.660	8787	1726
115023.800	14140	4673
115023.800	14663	4533
115023.800	14175	4428

Nonlinear Fit Results

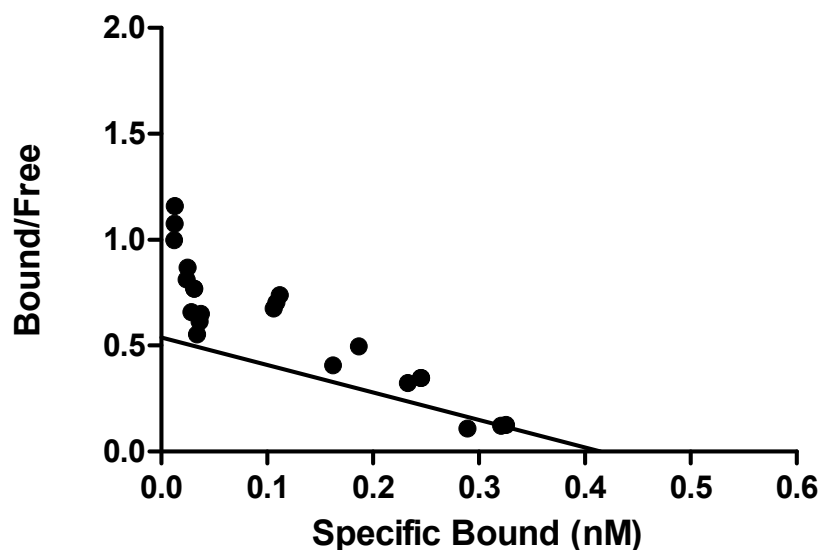
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3851	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.2992	(not used)	
NS	0.04183	0.04183	0.04183
BmaxM	2.992e-010	(not used)	
Bmax/Kd	0.7769	(not used)	
Std. Error			
KdnM	0.01712	(not used)	
BmaxnM	0.004902	(not used)	
NS	0.0008200	0.0008200	0.0008200
Bmax/Kd	0.02488	(not used)	
95% Confidence Intervals			
KdnM	0.3506 to 0.4196	(not used)	
BmaxnM	0.2893 to 0.3091	(not used)	
NS	0.04017 to 0.04348	0.04017 to 0.04348	0.04017 to 0.04348
BmaxM	2.893e-010 to 3.091e-010	(not used)	
Bmax/Kd	0.7267 to 0.8270	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9992	0.9825	0.9983
Absolute Sum of Squares	420480	781905	1.202e+006
Sy.x			163.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 3/12/08
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 3/12/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1168.559	698	209
1168.559	715	227
1168.559	732	244
2355.283	1238	296
2355.283	1203	262
2355.283	1203	244
3121.809	1535	314
3121.809	1430	296
3121.809	1535	331
4063.922	1814	366
4063.922	1761	366
4063.922	1674	314
10847.620	4708	558
10847.620	4813	575
10847.620	4935	558
22904.970	8265	994
22904.970	8265	977
22904.970	7324	977
38675.070	11125	1465
38675.070	10637	1517
38675.070	11125	1639
118673.600	16810	4325
118673.600	16984	4307
118673.600	15572	4185

Outliers

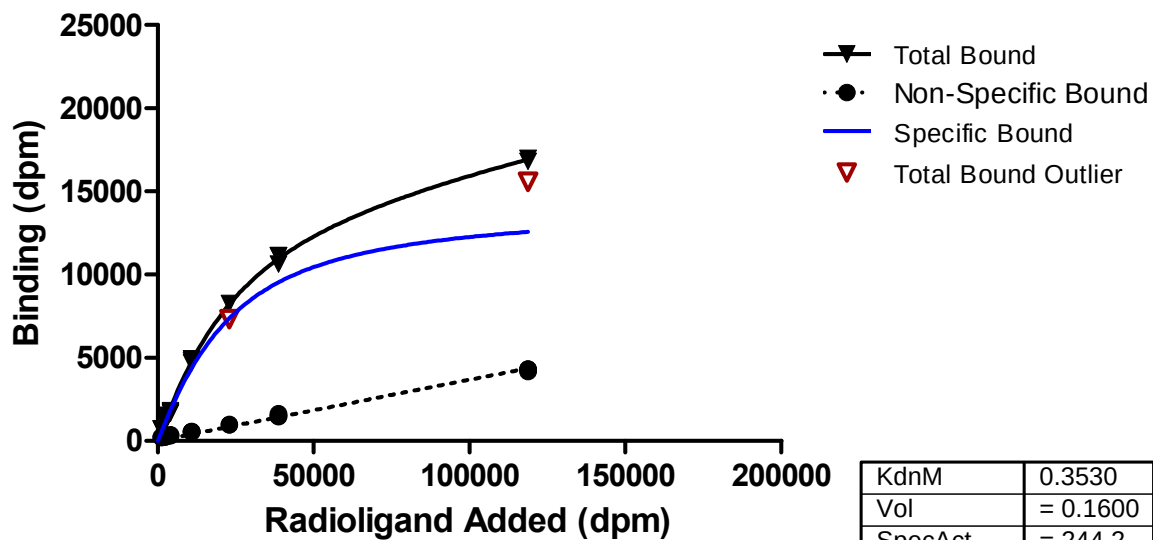
Total Added (dpm)	Total Bound (dpm)
118673.600	15572.000

Nonlinear Fit Results

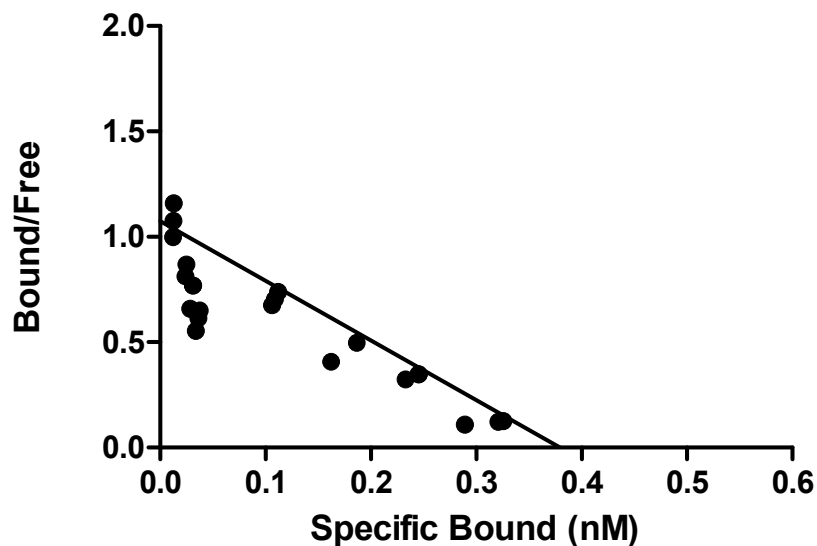
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.7684	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.4147	(not used)	
NS	0.03490	0.03490	0.03490
background	107.7	107.7	107.7
kDM	7.684e-010	(not used)	
BmaxM	4.147e-010	(not used)	
Bmax/Kd	0.5397	(not used)	
Std. Error			
KdM	0.04222	(not used)	
BmaxM	0.01018	(not used)	
NS	0.001263	0.001263	0.001263
background	52.10	52.10	52.10
Bmax/Kd	0.01866	(not used)	
95% Confidence Intervals			
KdM	0.6832 to 0.8536	(not used)	
BmaxM	0.3941 to 0.4352	(not used)	
NS	0.03235 to 0.03745	0.03235 to 0.03745	0.03235 to 0.03745
background	2.528 to 212.8	2.528 to 212.8	2.528 to 212.8
kDM	6.832e-010 to 8.536e-010	(not used)	
BmaxM	3.941e-010 to 4.352e-010	(not used)	
Bmax/Kd	0.5020 to 0.5774	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9962	0.9954	0.9971
Absolute Sum of Squares	2.228e+006	183836	2.412e+006
Sy.x			236.8
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	23	24	
Outliers (excluded, Q=1.0%)	1	0	

Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 3/12/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 3/12/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1168.559	698	209
1168.559	715	227
1168.559	732	244
2355.283	1238	296
2355.283	1203	262
2355.283	1203	244
3121.809	1535	314
3121.809	1430	296
3121.809	1535	331
4063.922	1814	366
4063.922	1761	366
4063.922	1674	314
10847.620	4708	558
10847.620	4813	575
10847.620	4935	558
22904.970	8265	994
22904.970	8265	977
22904.970	7324	977
38675.070	11125	1465
38675.070	10637	1517
38675.070	11125	1639
118673.600	16810	4325
118673.600	16984	4307
118673.600	15572	4185

Outliers

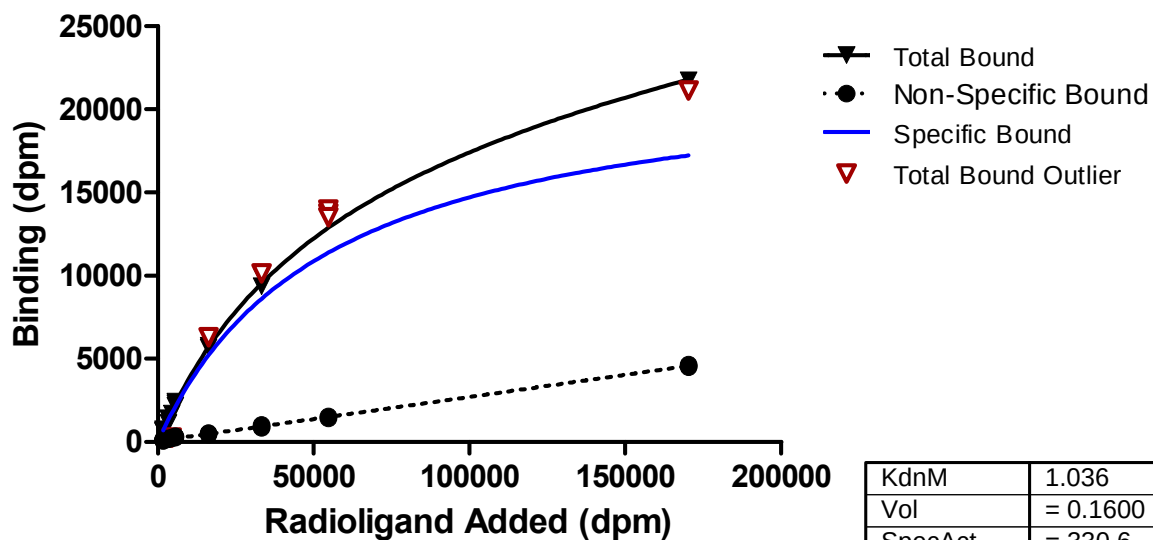
Total Added (dpm)	Total Bound (dpm)
22904.970	7324.000
118673.600	15572.000

Nonlinear Fit Results

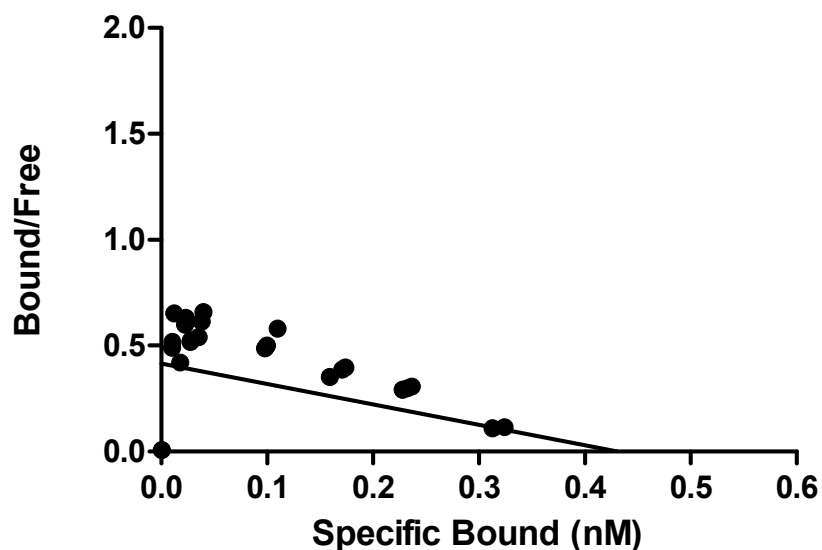
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3530	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3791	(not used)	
NS	0.03815	0.03815	0.03815
BmaxM	3.791e-010	(not used)	
Bmax/Kd	1.074	(not used)	
Std. Error			
KdnM	0.01421	(not used)	
BmaxnM	0.005333	(not used)	
NS	0.0007932	0.0007932	0.0007932
Bmax/Kd	0.03161	(not used)	
95% Confidence Intervals			
KdnM	0.3243 to 0.3817	(not used)	
BmaxnM	0.3683 to 0.3899	(not used)	
NS	0.03654 to 0.03975	0.03654 to 0.03975	0.03654 to 0.03975
BmaxM	3.683e-010 to 3.899e-010	(not used)	
Bmax/Kd	1.010 to 1.138	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9992	0.9829	0.9986
Absolute Sum of Squares	480523	677107	1.158e+006
Sy.x			164.1
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: JapanCERI, Run ID: n-1, Run Date: 12/11/08
Protocol: FWA

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: JapanCERI, Run ID: n-1, Run Date: 12/11/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1726.667	648	115
1726.667	667	82
1726.667	754	158
3381.000	1430	226
3381.000	1142	202
3381.000	1392	173
4504.333	264	226
4504.333	1690	216
4504.333	1704	259
5622.667	2174	254
5622.667	2419	317
5622.667	2328	350
16317.000	5674	538
16317.000	5774	456
16317.000	6302	485
33252.670	10138	845
33252.670	9360	936
33252.670	9970	1037
54747.670	13738	1430
54747.670	13978	1426
54747.670	13517	1536
170253.700	21734	4570
170253.700	21125	4512
170253.700	21134	4656

Outliers

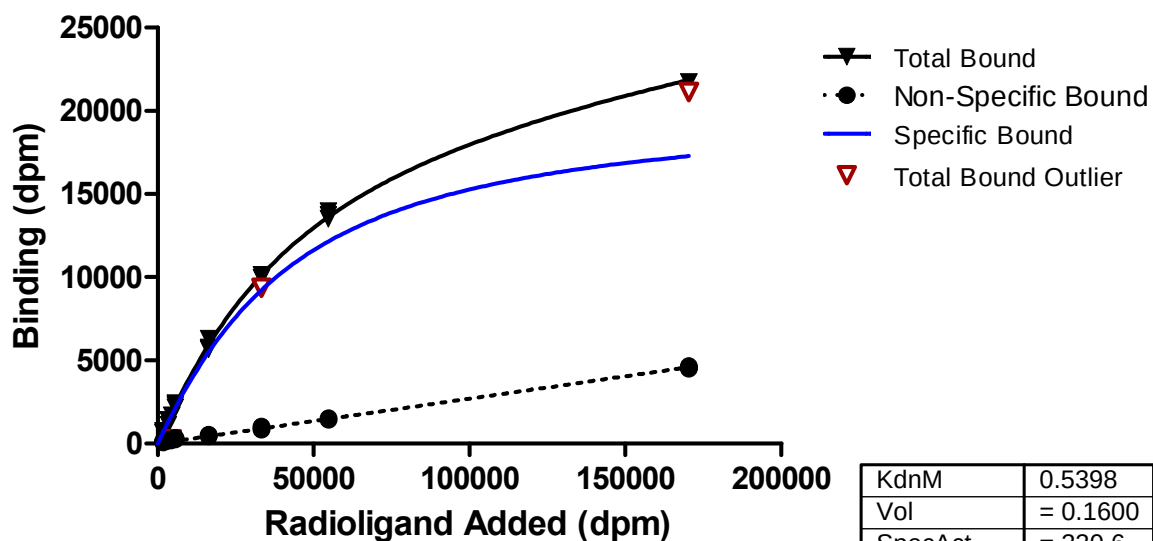
Total Added (dpm)	Total Bound (dpm)
4504.333	264.000
16317.000	6302.000
33252.670	10138.000
54747.670	13738.000
54747.670	13978.000
54747.670	13517.000
170253.700	21125.000
170253.700	21134.000

Nonlinear Fit Results

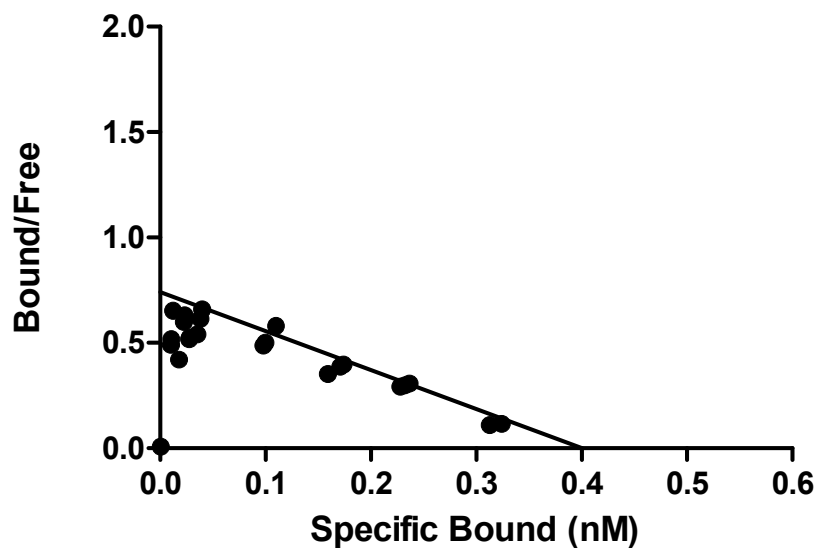
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	1.036	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 330.6	(not used)	
BmaxM	0.4305	(not used)	
NS	0.02658	0.02658	0.02658
background	43.38	43.38	43.38
kDM	1.036e-009	(not used)	
BmaxM	4.305e-010	(not used)	
Bmax/Kd	0.4156	(not used)	
Std. Error			
KdM	0.02980	(not used)	
BmaxM	0.006042	(not used)	
NS	0.0004807	0.0004807	0.0004807
background	28.44	28.44	28.44
Bmax/Kd	0.007314	(not used)	
95% Confidence Intervals			
KdM	0.9754 to 1.096	(not used)	
BmaxM	0.4183 to 0.4428	(not used)	
NS	0.02561 to 0.02756	0.02561 to 0.02756	0.02561 to 0.02756
background	0.0 to 101.1	0.0 to 101.1	0.0 to 101.1
kDM	9.754e-010 to 1.096e-009	(not used)	
BmaxM	4.183e-010 to 4.428e-010	(not used)	
Bmax/Kd	0.4008 to 0.4305	(not used)	
Goodness of Fit			
Degrees of Freedom			36
R square	0.9990	0.9973	0.9990
Absolute Sum of Squares	478835	125419	604254
Sy.x			129.6
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 330.6	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	16	24	
Outliers (excluded, Q=1.0%)	8	0	

Laboratory: Japan CERl, Run ID: n-1, Run Date: 12/11/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Std. Error	
KdnM	0.01527
BmaxnM	0.004868

Laboratory: Japan CERl, Run ID: n-1, Run Date: 12/11/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1726.667	648	115
1726.667	667	82
1726.667	754	158
3381.000	1430	226
3381.000	1142	202
3381.000	1392	173
4504.333	264	226
4504.333	1690	216
4504.333	1704	259
5622.667	2174	254
5622.667	2419	317
5622.667	2328	350
16317.000	5674	538
16317.000	5774	456
16317.000	6302	485
33252.670	10138	845
33252.670	9360	936
33252.670	9970	1037
54747.670	13738	1430
54747.670	13978	1426
54747.670	13517	1536
170253.700	21734	4570
170253.700	21125	4512
170253.700	21134	4656

Outliers

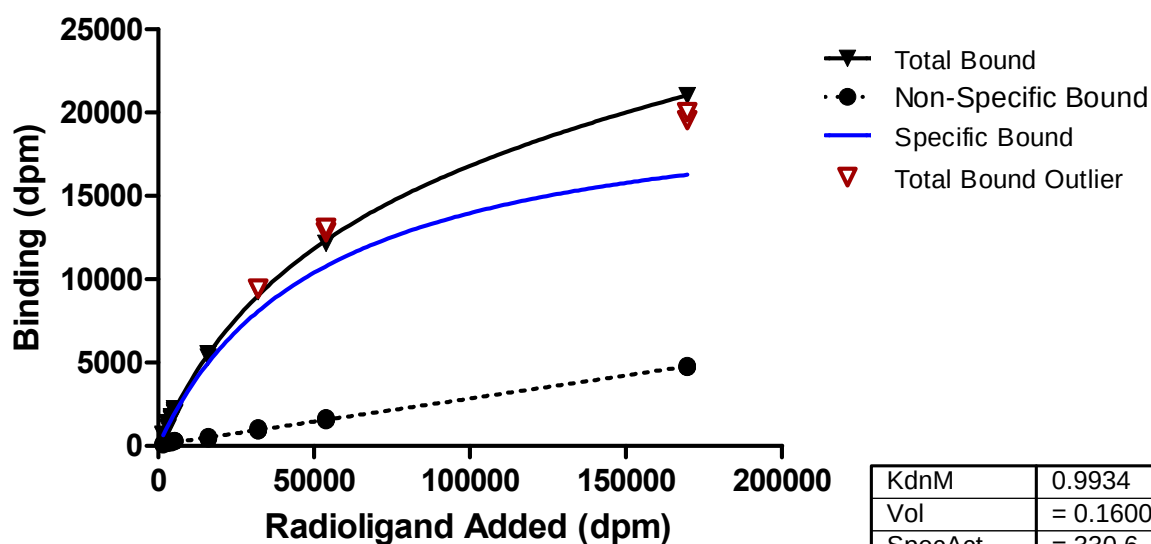
Total Added (dpm)	Total Bound (dpm)
4504.333	264.000
33252.670	9360.000
170253.700	21125.000
170253.700	21134.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.5398	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 330.6	(not used)	
BmaxnM	0.4001	(not used)	
NS	0.02767	0.02767	0.02767
BmaxM	4.001e-010	(not used)	
Bmax/Kd	0.7412	(not used)	
Std. Error			
KdnM	0.01527	(not used)	
BmaxnM	0.004868	(not used)	
NS	0.0004678	0.0004678	0.0004678
Bmax/Kd	0.01351	(not used)	
95% Confidence Intervals			
KdnM	0.5089 to 0.5706	(not used)	
BmaxnM	0.3903 to 0.4099	(not used)	
NS	0.02672 to 0.02861	0.02672 to 0.02861	0.02672 to 0.02861
BmaxM	3.903e-010 to 4.099e-010	(not used)	
Bmax/Kd	0.7140 to 0.7685	(not used)	
Goodness of Fit			
Degrees of Freedom			41
R square	0.9991	0.9952	0.9992
Absolute Sum of Squares	587188	226979	814167
Sy.x			140.9
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 330.6	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	20	24	
Outliers (excluded, Q=1.0%)	4	0	

Laboratory: JapanCERI, Run ID: n-2, Run Date: 12/17/08
Protocol: FWA

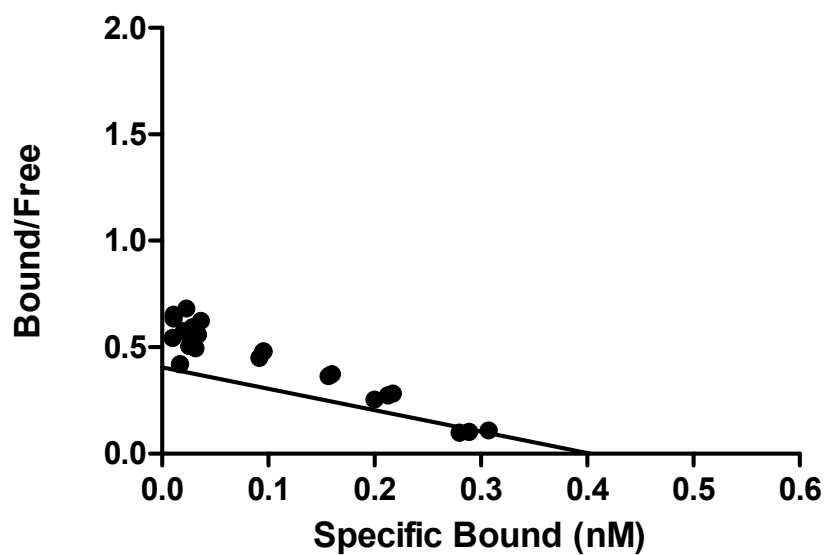
One Site - Total+NSB No Adj for ligand depletion



K _d nM	0.9934
Vol	= 0.1600
SpecAct	= 330.6
B _{max} nM	0.4030

Std. Error	
K _d nM	0.02576
B _{max} nM	0.005207

Scatchard Plot



Laboratory: JapanCERI, Run ID: n-2, Run Date: 12/17/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1587.333	638	77
1587.333	691	144
1587.333	701	144
3161.667	1066	168
3161.667	1272	168
3161.667	1392	216
4281.000	1598	192
4281.000	1661	283
4281.000	1747	250
5308.667	2098	312
5308.667	2227	288
5308.667	1963	312
16015.670	5314	466
16015.670	5515	437
16015.670	5530	542
32021.330	9427	936
32021.330	9341	1080
32021.330	9254	926
53835.000	12826	1550
53835.000	13080	1670
53835.000	12149	1531
169569.000	19550	4829
169569.000	20040	4709
169569.000	21005	4733

Outliers

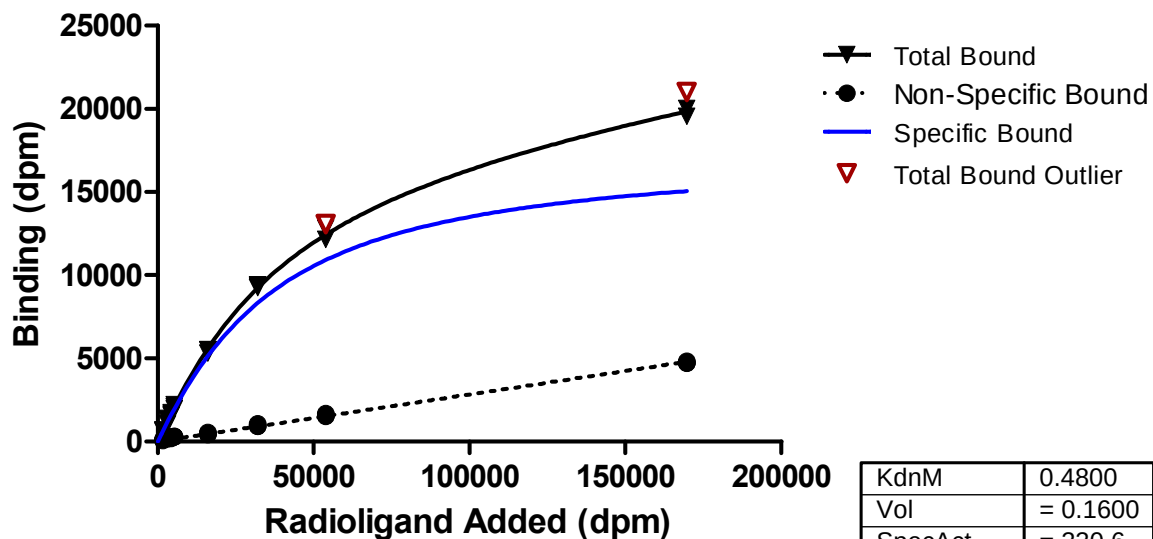
Total Added (dpm)	Total Bound (dpm)
32021.330	9427.000
53835.000	12826.000
53835.000	13080.000
169569.000	19550.000
169569.000	20040.000

Nonlinear Fit Results

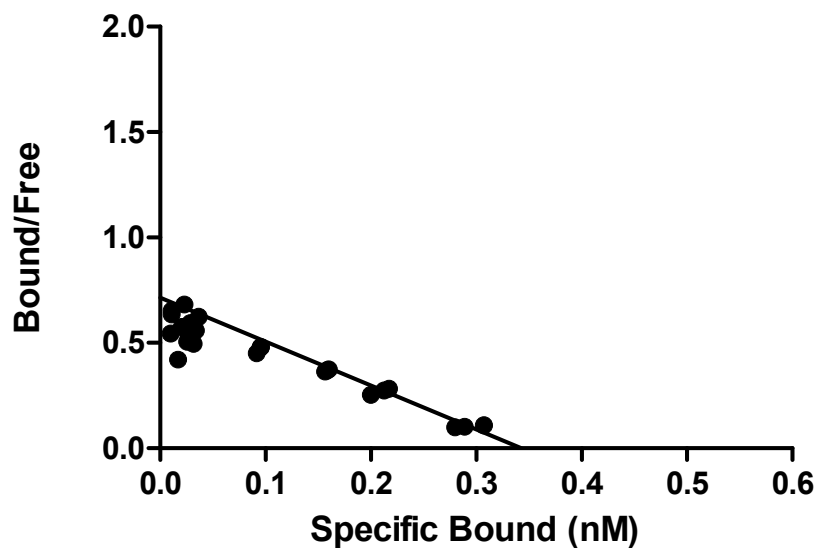
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.9934	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 330.6	(not used)	
BmaxM	0.4030	(not used)	
NS	0.02779	0.02779	0.02779
background	57.04	57.04	57.04
kM	9.934e-010	(not used)	
BmaxM	4.030e-010	(not used)	
Bmax/Kd	0.4056	(not used)	
Std. Error			
KdM	0.02576	(not used)	
BmaxM	0.005207	(not used)	
NS	0.0004344	0.0004344	0.0004344
background	25.26	25.26	25.26
Bmax/Kd	0.006213	(not used)	
95% Confidence Intervals			
KdM	0.9413 to 1.046	(not used)	
BmaxM	0.3925 to 0.4135	(not used)	
NS	0.02691 to 0.02867	0.02691 to 0.02867	0.02691 to 0.02867
background	5.936 to 108.2	5.936 to 108.2	5.936 to 108.2
kM	9.413e-010 to 1.046e-009	(not used)	
BmaxM	3.925e-010 to 4.135e-010	(not used)	
Bmax/Kd	0.3931 to 0.4182	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9991	0.9980	0.9992
Absolute Sum of Squares	427476	105686	533162
Sy.x			116.9
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 330.6	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	19	24	
Outliers (excluded, Q=1.0%)	5	0	

Laboratory: Japan CERl, Run ID: n-2, Run Date: 12/17/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Japan CERl, Run ID: n-2, Run Date: 12/17/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1587.333	638	77
1587.333	691	144
1587.333	701	144
3161.667	1066	168
3161.667	1272	168
3161.667	1392	216
4281.000	1598	192
4281.000	1661	283
4281.000	1747	250
5308.667	2098	312
5308.667	2227	288
5308.667	1963	312
16015.670	5314	466
16015.670	5515	437
16015.670	5530	542
32021.330	9427	936
32021.330	9341	1080
32021.330	9254	926
53835.000	12826	1550
53835.000	13080	1670
53835.000	12149	1531
169569.000	19550	4829
169569.000	20040	4709
169569.000	21005	4733

Outliers

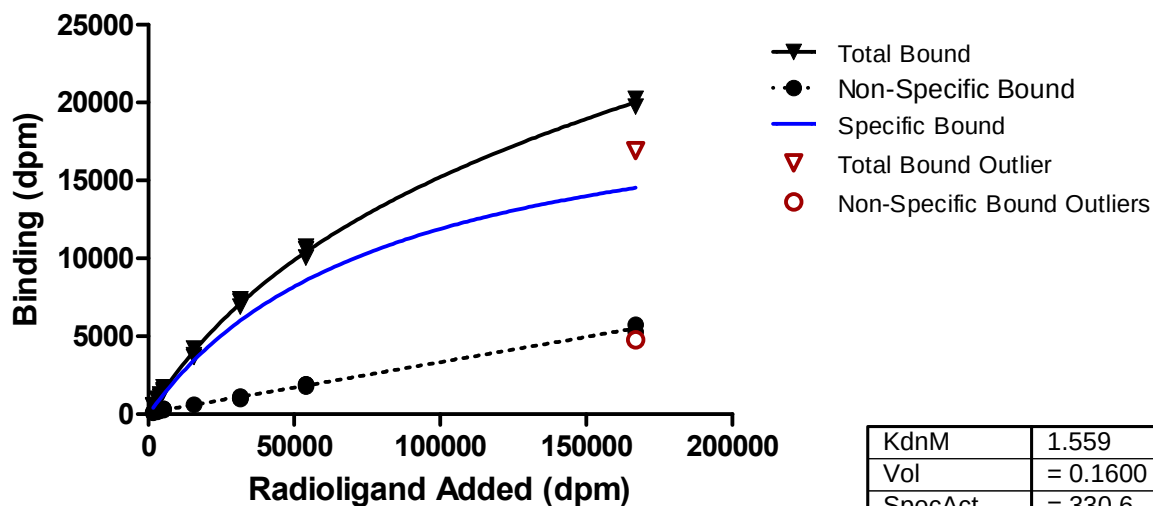
Total Added (dpm)	Total Bound (dpm)
53835.000	13080.000
169569.000	21005.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.4800	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 330.6	(not used)	
BmaxnM	0.3426	(not used)	
NS	0.02906	0.02906	0.02906
BmaxM	3.426e-010	(not used)	
Bmax/Kd	0.7137	(not used)	
Std. Error			
KdnM	0.01285	(not used)	
BmaxnM	0.003669	(not used)	
NS	0.0004718	0.0004718	0.0004718
Bmax/Kd	0.01327	(not used)	
95% Confidence Intervals			
KdnM	0.4541 to 0.5059	(not used)	
BmaxnM	0.3352 to 0.3500	(not used)	
NS	0.02811 to 0.03001	0.02811 to 0.03001	0.02811 to 0.03001
BmaxM	3.352e-010 to 3.500e-010	(not used)	
Bmax/Kd	0.6869 to 0.7405	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9992	0.9953	0.9992
Absolute Sum of Squares	611042	244071	855113
Sy.x			141.0
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 330.6	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: JapanCERI, Run ID: n-3, Run Date: 12/18/08
Protocol: FWA

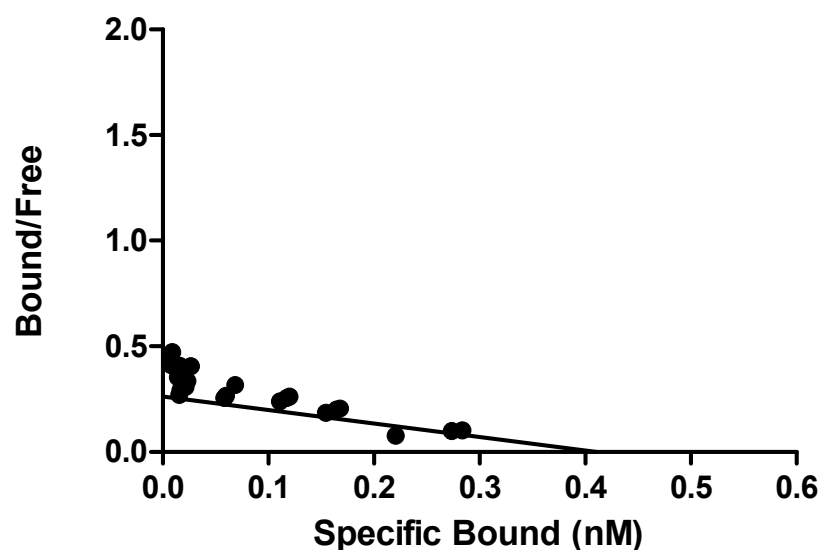
One Site - Total+NSB No Adj for ligand depletion



KdnM	1.559
Vol	= 0.1600
SpecAct	= 330.6
BmaxnM	0.4104

Std. Error	
KdnM	0.05897
BmaxnM	0.008602

Scatchard Plot



Laboratory: JapanCERI, Run ID: n-3, Run Date: 12/18/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1575.667	538	120
1575.667	533	96
1575.667	576	96
3031.667	979	197
3031.667	917	158
3031.667	998	149
4110.667	1085	250
4110.667	1258	235
4110.667	1138	312
5170.333	1714	259
5170.333	1531	326
5170.333	1454	350
15647.670	4224	605
15647.670	3773	610
15647.670	3677	605
31454.000	7238	979
31454.000	7378	1022
31454.000	6907	1138
53891.670	10762	1781
53891.670	10574	1930
53891.670	10051	1915
166867.700	19738	5731
166867.700	16930	4790
166867.700	20270	5280

Outliers

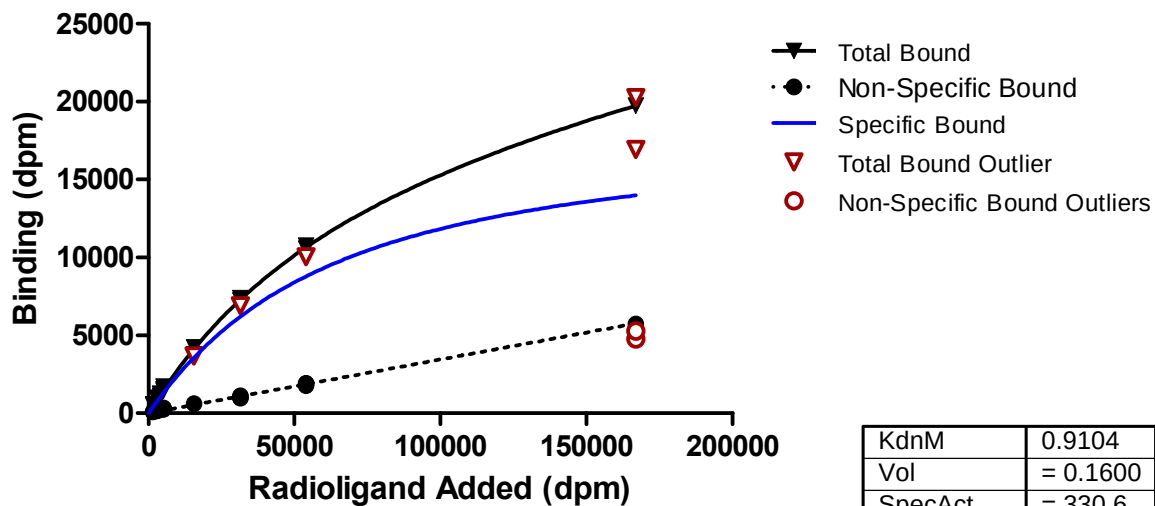
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
166867.700	16930.000	
166867.700		4790.000

Nonlinear Fit Results

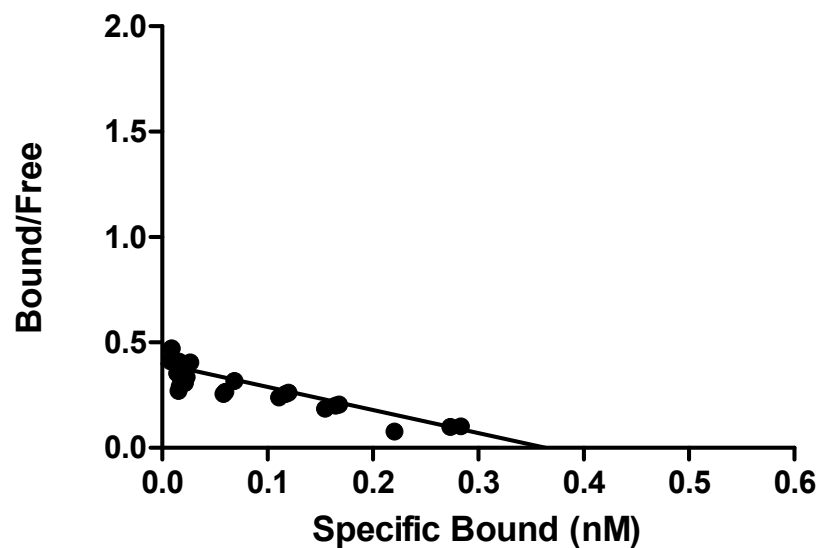
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdN	1.559	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 330.6	(not used)	
BmaxN	0.4104	(not used)	
NS	0.03252	0.03252	0.03252
background	80.58	80.58	80.58
kM	1.559e-009	(not used)	
BmaxM	4.104e-010	(not used)	
Bmax/Kd	0.2632	(not used)	
Std. Error			
KdN	0.05897	(not used)	
BmaxN	0.008602	(not used)	
NS	0.0006972	0.0006972	0.0006972
background	33.09	33.09	33.09
Bmax/Kd	0.005247	(not used)	
95% Confidence Intervals			
KdN	1.440 to 1.678	(not used)	
BmaxN	0.3930 to 0.4278	(not used)	
NS	0.03111 to 0.03393	0.03111 to 0.03393	0.03111 to 0.03393
background	13.78 to 147.4	13.78 to 147.4	13.78 to 147.4
kM	1.440e-009 to 1.678e-009	(not used)	
BmaxM	3.930e-010 to 4.278e-010	(not used)	
Bmax/Kd	0.2526 to 0.2738	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9988	0.9965	0.9989
Absolute Sum of Squares	887516	176718	1.064e+006
Sy.x			159.2
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 330.6	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	23	23	
Outliers (excluded, Q=1.0%)	1	1	

Laboratory: Japan CERl, Run ID: n-3, Run Date: 12/18/08
Protocol: FWA

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Japan CERl, Run ID: n-3, Run Date: 12/18/08
Protocol: FWA

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1575.667	538	120
1575.667	533	96
1575.667	576	96
3031.667	979	197
3031.667	917	158
3031.667	998	149
4110.667	1085	250
4110.667	1258	235
4110.667	1138	312
5170.333	1714	259
5170.333	1531	326
5170.333	1454	350
15647.670	4224	605
15647.670	3773	610
15647.670	3677	605
31454.000	7238	979
31454.000	7378	1022
31454.000	6907	1138
53891.670	10762	1781
53891.670	10574	1930
53891.670	10051	1915
166867.700	19738	5731
166867.700	16930	4790
166867.700	20270	5280

Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
15647.670	3677.000	
31454.000	6907.000	
53891.670	10051.000	
166867.700	16930.000	
166867.700	20270.000	
166867.700		4790.000
166867.700		5280.000

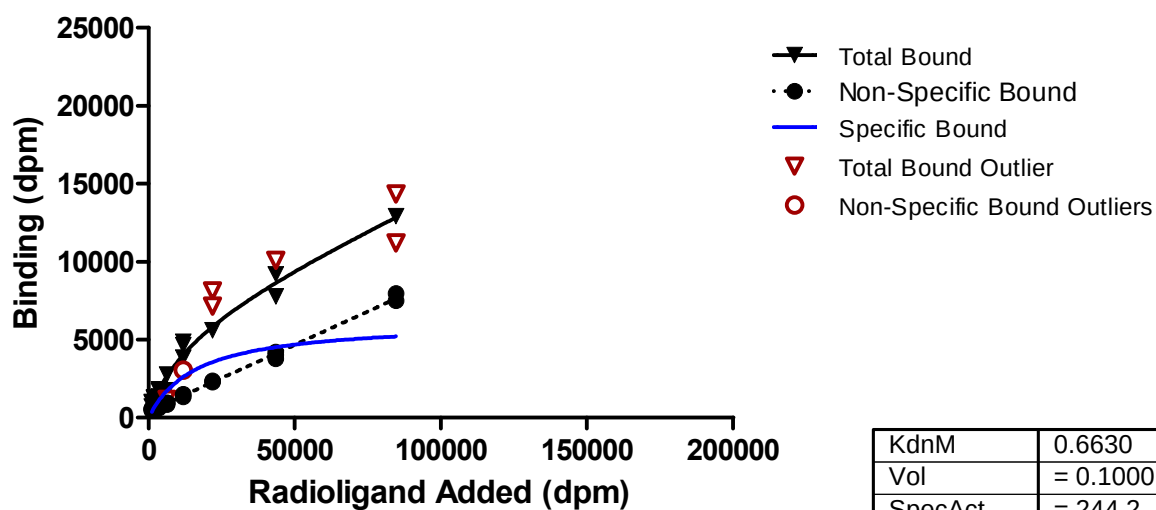
Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.9104	(not used)	
Vol	= 0.1600	(not used)	
SpecAct	= 330.6	(not used)	
BmaxnM	0.3635	(not used)	
NS	0.03578		0.03578
BmaxM	3.635e-010	(not used)	
Bmax/Kd	0.3993	(not used)	
Std. Error			
KdnM	0.02708	(not used)	
BmaxnM	0.005650	(not used)	
NS	0.0005768	0.0005768	0.0005768
Bmax/Kd	0.006836	(not used)	
95% Confidence Intervals			
KdnM	0.8555 to 0.9652	(not used)	
BmaxnM	0.3521 to 0.3749	(not used)	
NS	0.03461 to 0.03694	0.03461 to 0.03694	0.03461 to 0.03694
BmaxM	3.521e-010 to 3.749e-010	(not used)	
Bmax/Kd	0.3854 to 0.4131	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9994	0.9946	0.9993
Absolute Sum of Squares	272497	174501	446998
Sy.x			108.5
Constraints			
Vol	Vol = 0.1600	(not used)	
SpecAct	SpecAct = 330.6	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	19	22	
Outliers (excluded, Q=1.0%)	5	2	

Appendix B – PRISM Model Fits and Scatchard Plots for the CERI Protocol

Laboratory: CEETOX, Run ID: CERI 20081029 saturation # 1, Run Date: 10/29/08
Protocol: CERI

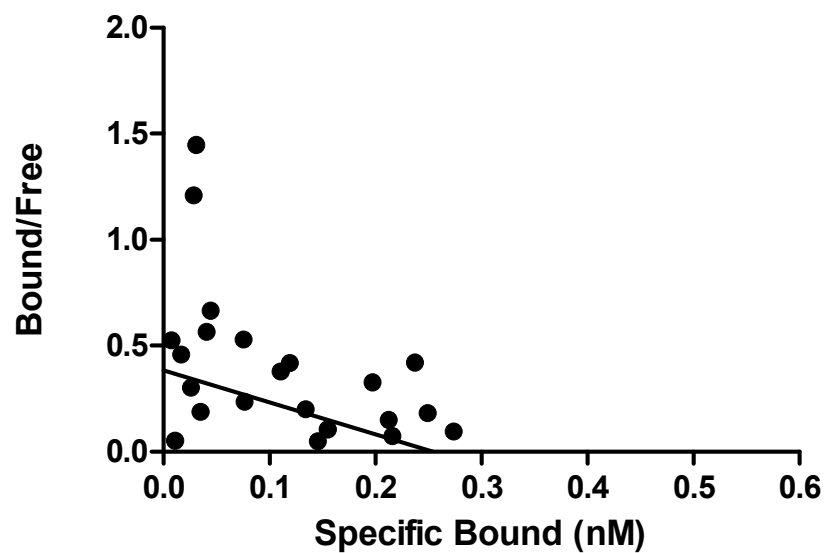
One Site - Total+NSB No Adj for ligand depletion



Kd _n M	0.6630
Vol	= 0.1000
SpecAct	= 244.2
B _{max} nM	0.2542

Std. Error	
Kd _n M	0.1239
B _{max} nM	0.01913

Scatchard Plot



Laboratory: CEETOX, Run ID: CERI 20081029 saturation # 1, Run Date: 10/29/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1065.000	960	472
1065.000	1012	596
1065.000	720	548
1833.000	1312	456
1833.000	1256	588
1833.000	960	632
3455.000	1816	608
3455.000	1712	740
3455.000	1360	828
6249.000	2760	844
6249.000	1764	920
6249.000	1176	976
11799.000	4872	1348
11799.000	4664	3044
11799.000	3836	1500
21882.000	8128	2280
21882.000	7148	2364
21882.000	5608	2360
43459.000	10096	4212
43459.000	9200	3780
43459.000	7788	4040
84573.000	14348	7964
84573.000	12932	7512
84573.000	11216	7508

Outliers

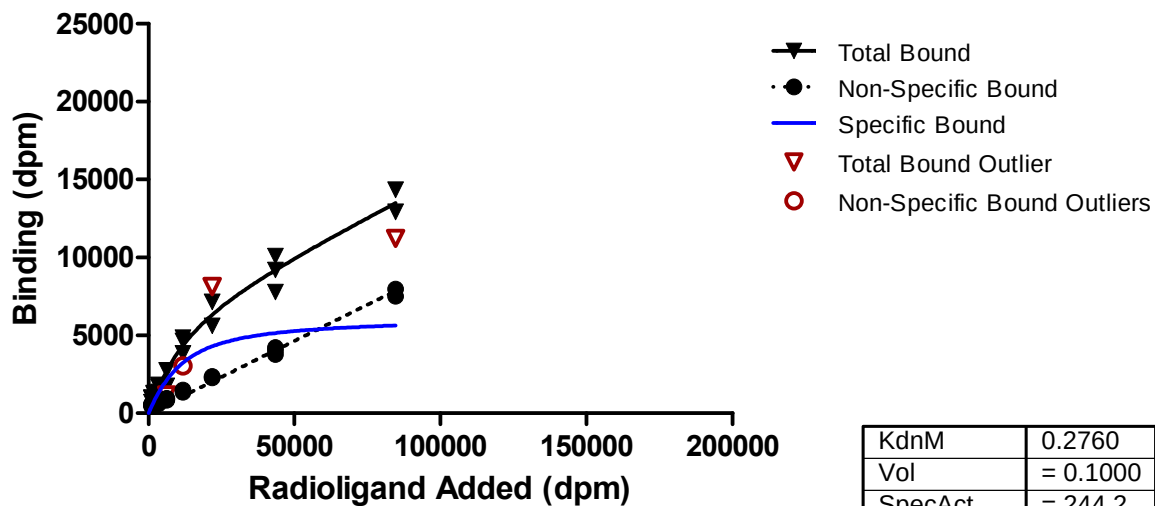
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
6249.000	1176.000	
21882.000	8128.000	
21882.000	7148.000	
43459.000	10096.000	
84573.000	14348.000	
84573.000	11216.000	
11799.000		3044.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.6630	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.2542	(not used)	
NS	0.08554	0.08554	0.08554
background	394.3	394.3	394.3
kdM	6.630e-010	(not used)	
BmaxM	2.542e-010	(not used)	
Bmax/Kd	0.3834	(not used)	
Std. Error			
KdM	0.1239	(not used)	
BmaxM	0.01913	(not used)	
NS	0.002336	0.002336	0.002336
background	78.94	78.94	78.94
Bmax/Kd	0.04843	(not used)	
95% Confidence Intervals			
KdM	0.4119 to 0.9142	(not used)	
BmaxM	0.2154 to 0.2930	(not used)	
NS	0.08081 to 0.09028	0.08081 to 0.09028	0.08081 to 0.09028
background	234.3 to 554.3	234.3 to 554.3	234.3 to 554.3
kdM	4.119e-010 to 9.142e-010	(not used)	
BmaxM	2.154e-010 to 2.930e-010	(not used)	
Bmax/Kd	0.2852 to 0.4815	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9829	0.9971	0.9891
Absolute Sum of Squares	3.385e+006	367958	3.753e+006
Sy.x			318.5
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	18	23	
Outliers (excluded, Q=1.0%)	6	1	

Laboratory: CEETOX, Run ID: CERI 20081029 saturation # 1, Run Date: 10/29/08
Protocol: CERI

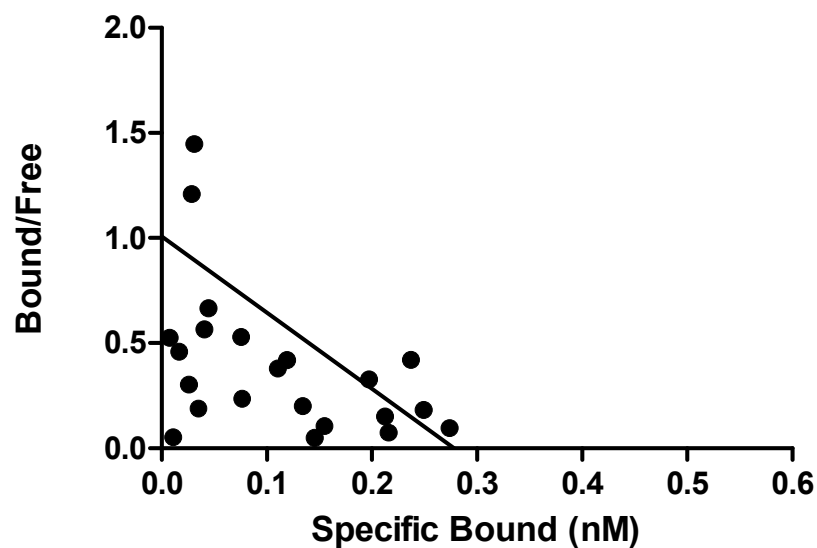
One Site - Total+NSB account for ligand depletion



KdnM	0.2760
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.2783

Std. Error	
KdnM	0.06484
BmaxnM	0.01973

Scatchard Plot



Laboratory: CEETOX, Run ID: CERI 20081029 saturation # 1, Run Date: 10/29/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1065.000	960	472
1065.000	1012	596
1065.000	720	548
1833.000	1312	456
1833.000	1256	588
1833.000	960	632
3455.000	1816	608
3455.000	1712	740
3455.000	1360	828
6249.000	2760	844
6249.000	1764	920
6249.000	1176	976
11799.000	4872	1348
11799.000	4664	3044
11799.000	3836	1500
21882.000	8128	2280
21882.000	7148	2364
21882.000	5608	2360
43459.000	10096	4212
43459.000	9200	3780
43459.000	7788	4040
84573.000	14348	7964
84573.000	12932	7512
84573.000	11216	7508

Outliers

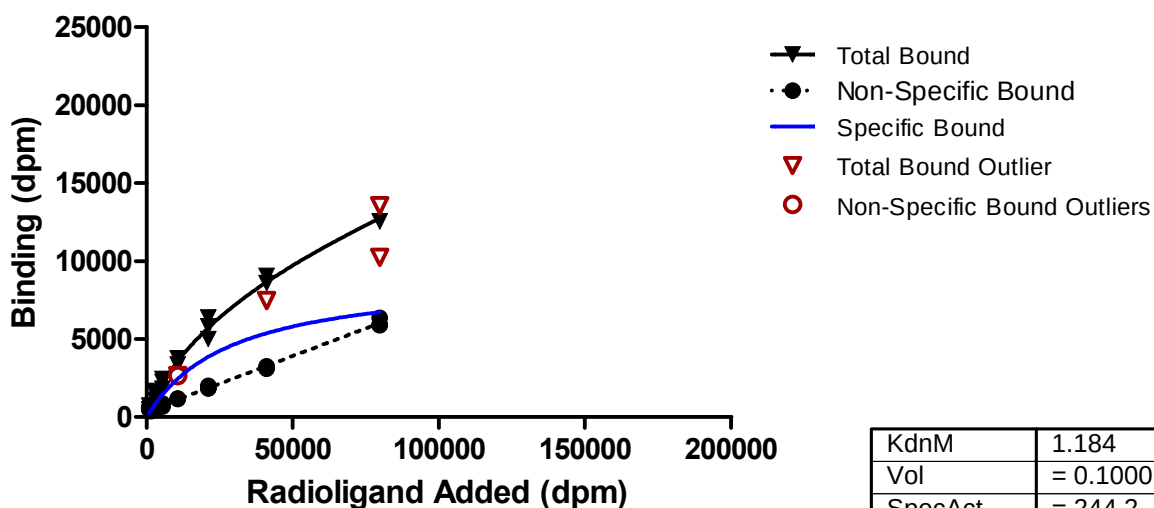
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
6249.000	1176.000	
21882.000	8128.000	
84573.000	11216.000	
11799.000		3044.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2760	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.2783	(not used)	
NS	0.1023		0.1023
BmaxM	2.783e-010	(not used)	
Bmax/Kd	1.008	(not used)	
Std. Error			
KdnM	0.06484	(not used)	
BmaxnM	0.01973	(not used)	
NS	0.003481	0.003481	0.003481
Bmax/Kd	0.1839	(not used)	
95% Confidence Intervals			
KdnM	0.1451 to 0.4070	(not used)	
BmaxnM	0.2384 to 0.3181	(not used)	
NS	0.09530 to 0.1094	0.09530 to 0.1094	0.09530 to 0.1094
BmaxM	2.384e-010 to 3.181e-010	(not used)	
Bmax/Kd	0.6365 to 1.380	(not used)	
Goodness of Fit			
Degrees of Freedom			41
R square	0.9788	0.9785	0.9810
Absolute Sum of Squares	7.381e+006	2.765e+006	1.015e+007
Sy.x			497.5
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	21	23	
Outliers (excluded, Q=1.0%)	3	1	

Laboratory: CEETOX, Run ID: CERI 20081030 saturation # 2, Run Date: 10/30/08
Protocol: CERI

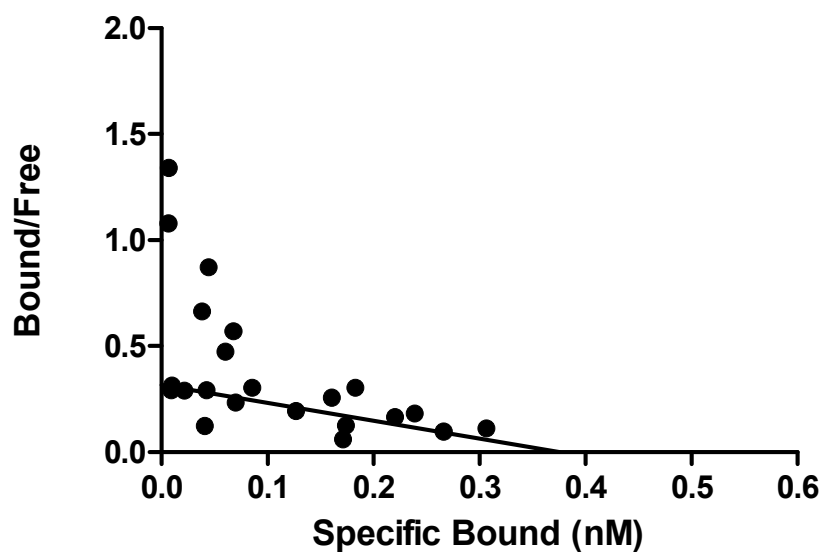
One Site - Total+NSB No Adj for ligand depletion



KdnM	1.184
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.3756

Std. Error	
KdnM	0.1544
BmaxnM	0.02390

Scatchard Plot



Laboratory: CEETOX, Run ID: CERI 20081030 saturation # 2, Run Date: 10/30/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
875.000	732	480
875.000	748	632
875.000	480	620
1489.000	720	388
1489.000	732	572
1489.000	492	524
2915.000	1668	448
2915.000	1512	652
2915.000	1108	644
5359.000	2448	684
5359.000	2260	868
5359.000	1824	812
10625.000	3372	2664
10625.000	3760	1160
10625.000	2664	1188
21029.000	5832	1868
21029.000	6376	2020
21029.000	5008	1840
41110.000	8588	3112
41110.000	9044	3268
41110.000	7460	3256
79708.000	12556	5928
79708.000	13544	6360
79708.000	10236	5884

Outliers

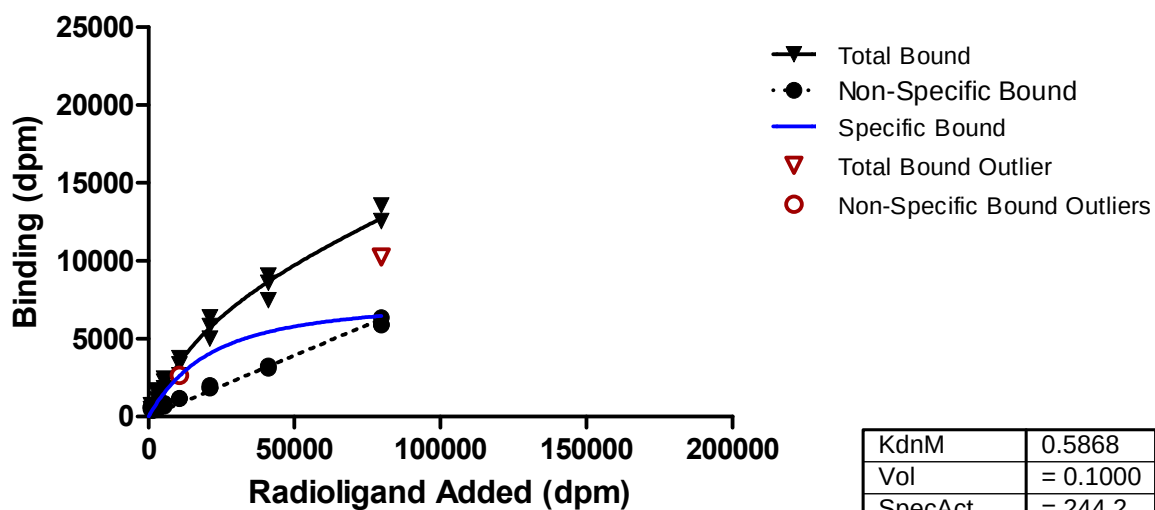
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
10625.000	2664.000	
41110.000	7460.000	
79708.000	13544.000	
79708.000	10236.000	
10625.000		2664.000

Nonlinear Fit Results

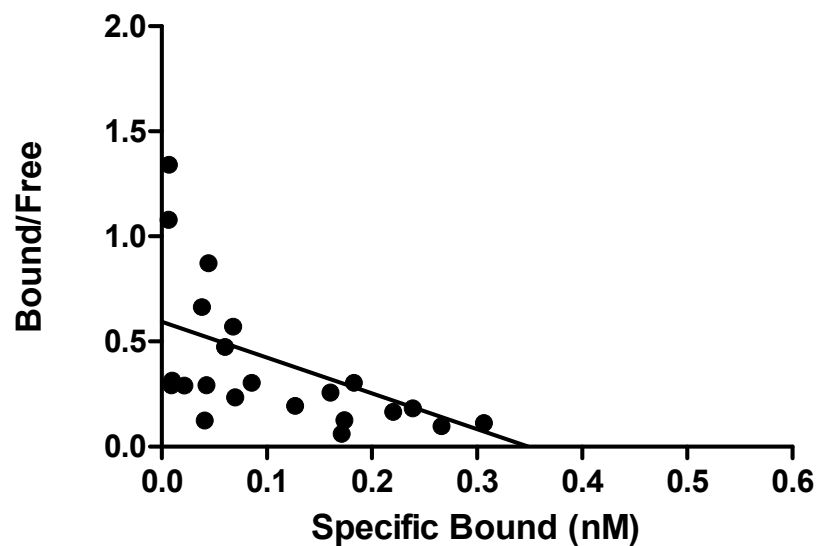
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	1.184	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.3756	(not used)	
NS	0.07100	0.07100	0.07100
background	366.3	366.3	366.3
kM	1.184e-009	(not used)	
BmaxM	3.756e-010	(not used)	
Bmax/Kd	0.3171	(not used)	
Std. Error			
KdM	0.1544	(not used)	
BmaxM	0.02390	(not used)	
NS	0.001832	0.001832	0.001832
background	55.94	55.94	55.94
Bmax/Kd	0.02358	(not used)	
95% Confidence Intervals			
KdM	0.8721 to 1.497	(not used)	
BmaxM	0.3272 to 0.4239	(not used)	
NS	0.06729 to 0.07470	0.06729 to 0.07470	0.06729 to 0.07470
background	253.1 to 479.5	253.1 to 479.5	253.1 to 479.5
kM	8.721e-010 to 1.497e-009	(not used)	
BmaxM	3.272e-010 to 4.239e-010	(not used)	
Bmax/Kd	0.2694 to 0.3648	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9915	0.9955	0.9931
Absolute Sum of Squares	1.897e+006	355237	2.252e+006
Sy.x			240.3
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	20	23	
Outliers (excluded, Q=1.0%)	4	1	

Laboratory: CEETOX, Run ID: CERI 20081030 saturation # 2, Run Date: 10/30/08
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: CEETOX, Run ID: CERI 20081030 saturation # 2, Run Date: 10/30/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
875.000	732	480
875.000	748	632
875.000	480	620
1489.000	720	388
1489.000	732	572
1489.000	492	524
2915.000	1668	448
2915.000	1512	652
2915.000	1108	644
5359.000	2448	684
5359.000	2260	868
5359.000	1824	812
10625.000	3372	2664
10625.000	3760	1160
10625.000	2664	1188
21029.000	5832	1868
21029.000	6376	2020
21029.000	5008	1840
41110.000	8588	3112
41110.000	9044	3268
41110.000	7460	3256
79708.000	12556	5928
79708.000	13544	6360
79708.000	10236	5884

Outliers

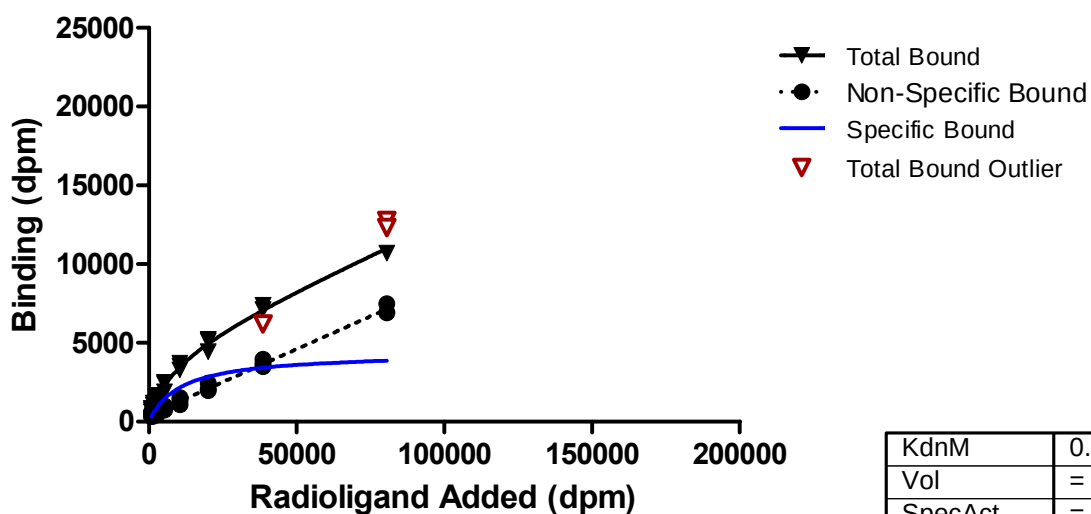
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
79708.000	10236.000	
10625.000		2664.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.5868	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3489	(not used)	
NS	0.08528	0.08528	0.08528
BmaxM	3.489e-010	(not used)	
Bmax/Kd	0.5945	(not used)	
Std. Error			
KdnM	0.1093	(not used)	
BmaxnM	0.02586	(not used)	
NS	0.003141	0.003141	0.003141
Bmax/Kd	0.07481	(not used)	
95% Confidence Intervals			
KdnM	0.3664 to 0.8073	(not used)	
BmaxnM	0.2967 to 0.4011	(not used)	
NS	0.07894 to 0.09161	0.07894 to 0.09161	0.07894 to 0.09161
BmaxM	2.967e-010 to 4.011e-010	(not used)	
Bmax/Kd	0.4436 to 0.7455	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9843	0.9645	0.9828
Absolute Sum of Squares	5.221e+006	2.786e+006	8.007e+006
Sy.x			431.5
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	23	23	
Outliers (excluded, Q=1.0%)	1	1	

Laboratory: CEETOX, Run ID: CERI 20081031 saturation # 3, Run Date: 10/31/08
Protocol: CERI

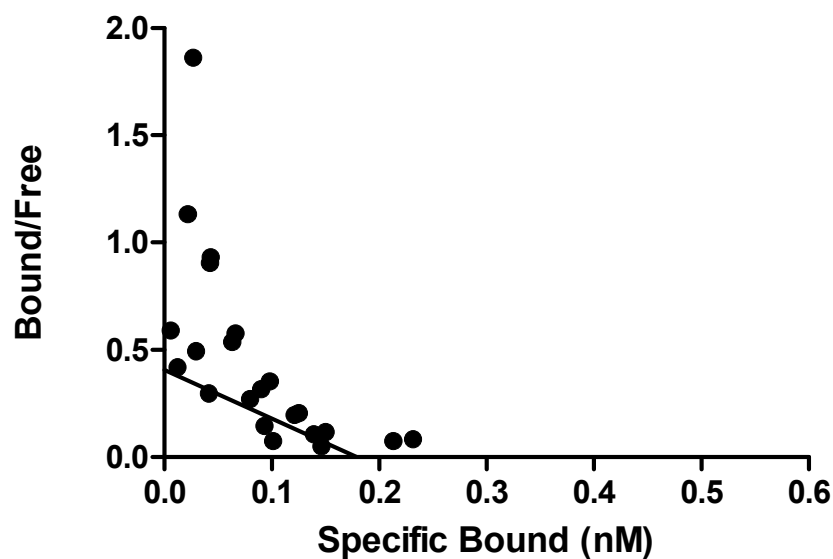
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.4395
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.1791

Std. Error	
KdnM	0.06706
BmaxnM	0.01008

Scatchard Plot



Laboratory: CEETOX, Run ID: CERI 20081031 saturation # 3, Run Date: 10/31/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
876.000	828	316
876.000	768	612
876.000	632	536
1518.000	1168	336
1518.000	1048	624
1518.000	812	588
2790.000	1660	468
2790.000	1644	692
2790.000	1328	660
5288.000	2416	736
5288.000	2488	900
5288.000	1884	984
10483.000	3724	1072
10483.000	3532	1372
10483.000	3276	1536
20097.000	5216	1964
20097.000	5124	2080
20097.000	4440	2444
38569.000	7116	3492
38569.000	7384	3696
38569.000	6188	3964
80485.000	12772	6956
80485.000	12328	6912
80485.000	10688	7492

Outliers

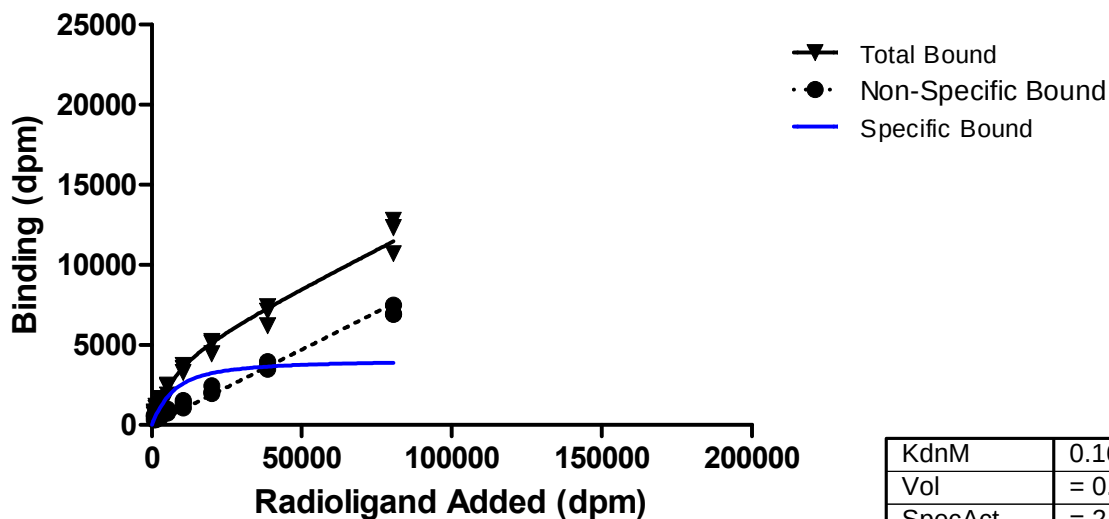
Total Added (dpm)	Total Bound (dpm)
38569.000	6188.000
80485.000	12772.000
80485.000	12328.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdN	0.4395	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxN	0.1791	(not used)	
NS	0.08354	0.08354	0.08354
background	414.2	414.2	414.2
kdM	4.395e-010	(not used)	
BmaxM	1.791e-010	(not used)	
Bmax/Kd	0.4075	(not used)	
Std. Error			
KdN	0.06706	(not used)	
BmaxN	0.01008	(not used)	
NS	0.001639	0.001639	0.001639
background	51.69	51.69	51.69
Bmax/Kd	0.04390	(not used)	
95% Confidence Intervals			
KdN	0.3040 to 0.5750	(not used)	
BmaxN	0.1587 to 0.1995	(not used)	
NS	0.08023 to 0.08685	0.08023 to 0.08685	0.08023 to 0.08685
background	309.8 to 518.6	309.8 to 518.6	309.8 to 518.6
kdM	3.040e-010 to 5.750e-010	(not used)	
BmaxM	1.587e-010 to 1.995e-010	(not used)	
Bmax/Kd	0.3188 to 0.4962	(not used)	
Goodness of Fit			
Degrees of Freedom			41
R square	0.9924	0.9932	0.9931
Absolute Sum of Squares	1.088e+006	761528	1.850e+006
Sy.x			212.4
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	21	24	
Outliers (excluded, Q=1.0%)	3	0	

Laboratory: CEETOX, Run ID: CERI 20081031 saturation # 3, Run Date: 10/31/08
Protocol: CERI

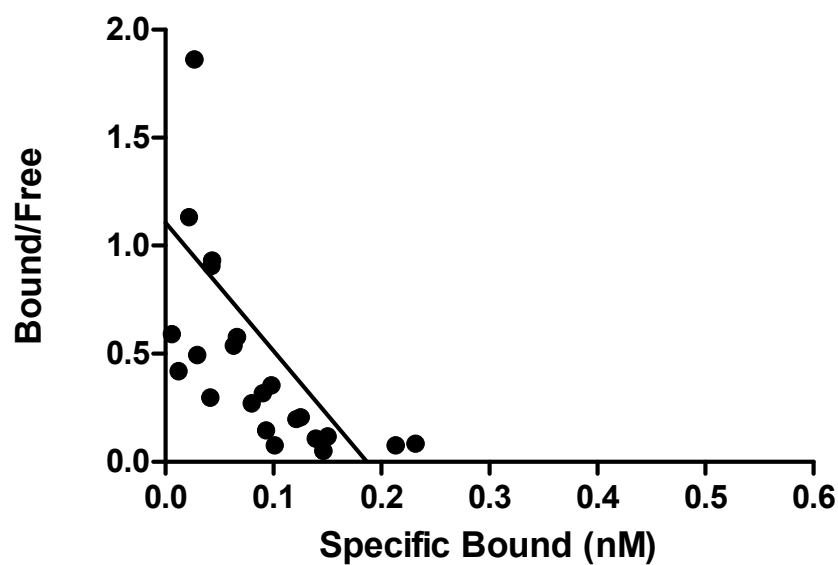
One Site - Total+NSB account for ligand depletion



KdnM	0.1687
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.1866

Std. Error	
KdnM	0.04749
BmaxnM	0.01419

Scatchard Plot



Laboratory: CEETOX, Run ID: CERI 20081031 saturation # 3, Run Date: 10/31/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
876.000	828	316
876.000	768	612
876.000	632	536
1518.000	1168	336
1518.000	1048	624
1518.000	812	588
2790.000	1660	468
2790.000	1644	692
2790.000	1328	660
5288.000	2416	736
5288.000	2488	900
5288.000	1884	984
10483.000	3724	1072
10483.000	3532	1372
10483.000	3276	1536
20097.000	5216	1964
20097.000	5124	2080
20097.000	4440	2444
38569.000	7116	3492
38569.000	7384	3696
38569.000	6188	3964
80485.000	12772	6956
80485.000	12328	6912
80485.000	10688	7492

Outliers

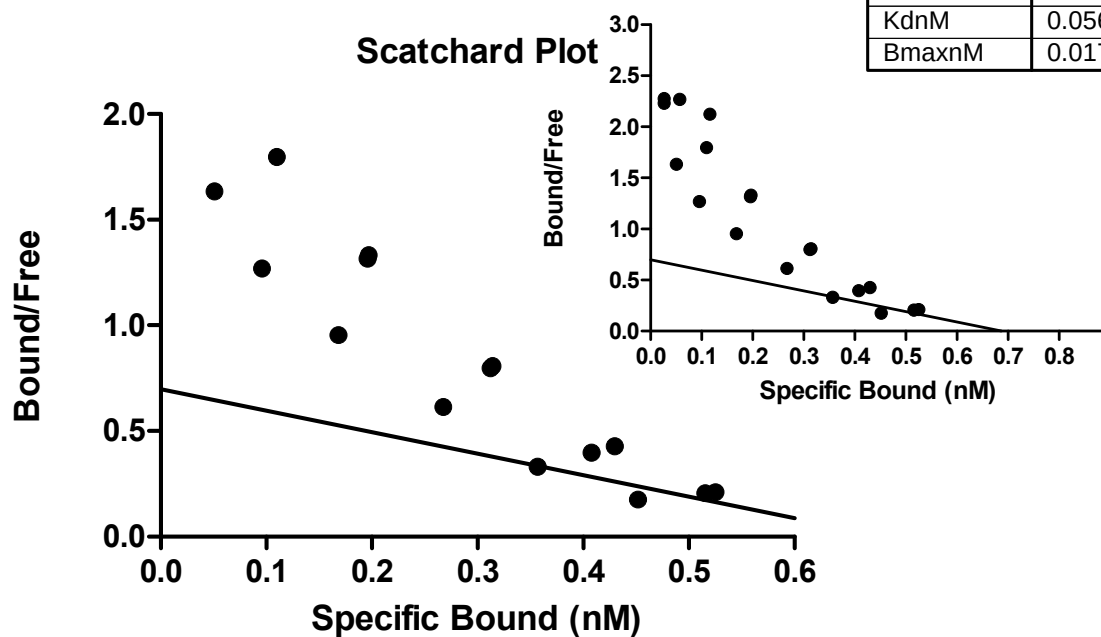
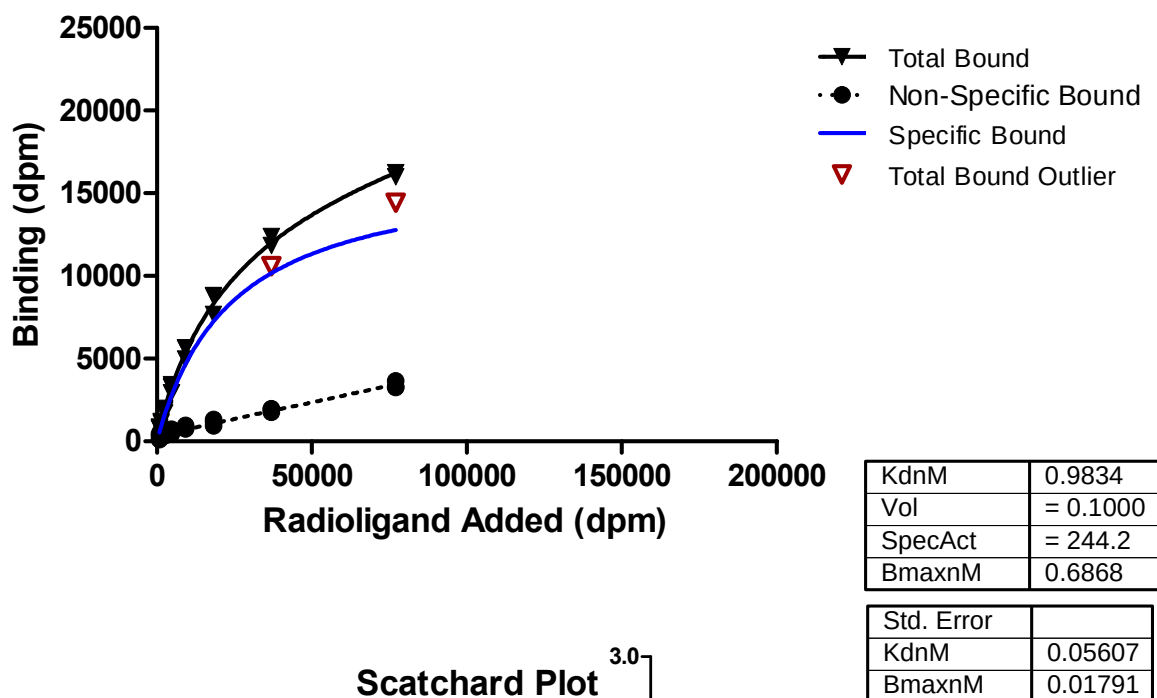
Total Bound (dpm)

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.1687	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.1866	(not used)	
NS	0.1038	0.1038	0.1038
BmaxM	1.866e-010	(not used)	
Bmax/Kd	1.106	(not used)	
Std. Error			
KdnM	0.04749	(not used)	
BmaxnM	0.01419	(not used)	
NS	0.003330	0.003330	0.003330
Bmax/Kd	0.2520	(not used)	
95% Confidence Intervals			
KdnM	0.07292 to 0.2644	(not used)	
BmaxnM	0.1580 to 0.2152	(not used)	
NS	0.09705 to 0.1105	0.09705 to 0.1105	0.09705 to 0.1105
BmaxM	1.580e-010 to 2.152e-010	(not used)	
Bmax/Kd	0.5985 to 1.614	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9812	0.9680	0.9799
Absolute Sum of Squares	5.779e+006	3.603e+006	9.382e+006
Sy.x			456.6
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: CEETOX, Run ID: CERI 20090122 saturation # 4, Run Date: 1/22/09
Protocol: CERI

One Site - Total+NSB No Adj for ligand depletion



Laboratory: CEETOX, Run ID: CERI 20090122 saturation # 4, Run Date: 1/22/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
797.000	792	328
797.000	780	460
797.000	856	112
1405.000	1200	428
1405.000	1112	684
1405.000	1116	260
2489.000	1876	476
2489.000	1992	632
2489.000	1728	344
4774.000	3280	576
4774.000	3436	736
4774.000	2932	472
9269.000	5636	828
9269.000	5660	968
9269.000	4964	764
18320.000	8772	1324
18320.000	8820	1176
18320.000	7684	956
36958.000	12388	1976
36958.000	11852	1948
36958.000	10604	1752
77052.000	16232	3656
77052.000	15996	3264
77052.000	14436	3296

Outliers

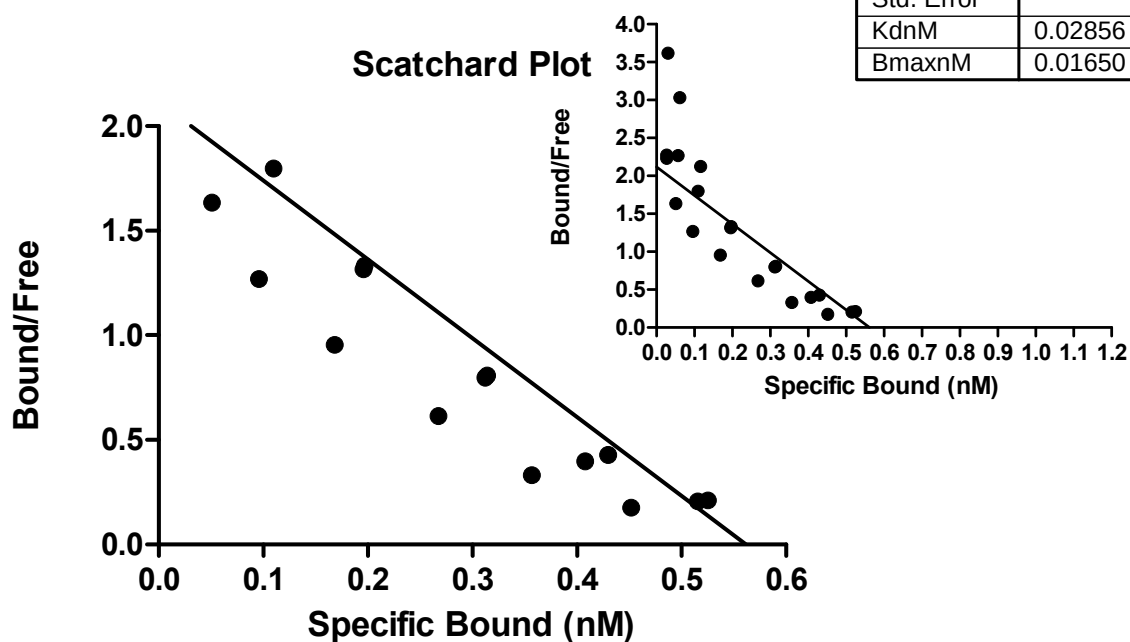
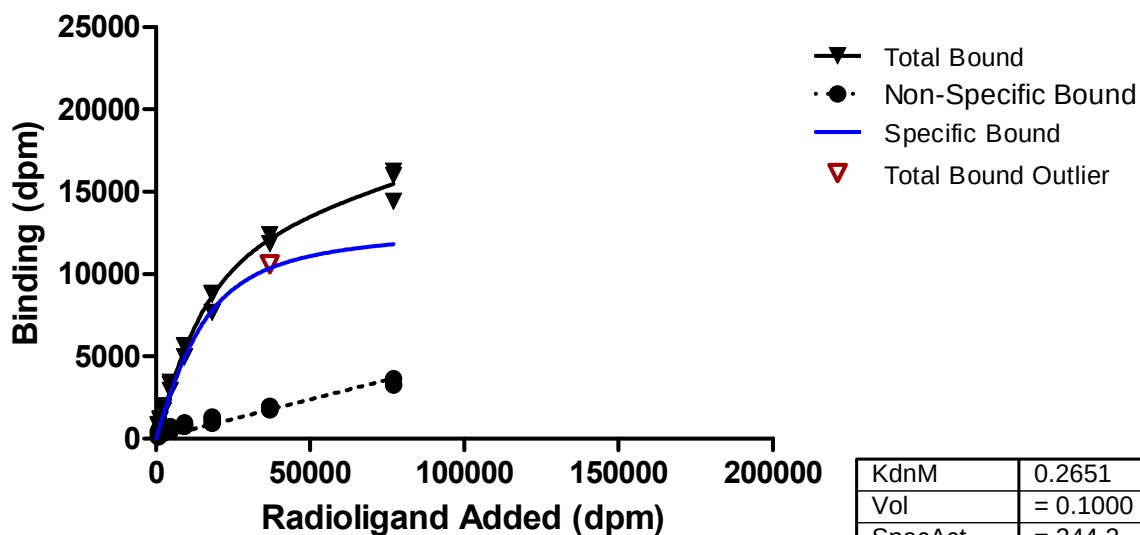
Total Added (dpm)	Total Bound (dpm)
36958.000	10604.000
77052.000	14436.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.9834	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.6868	(not used)	
NS	0.04046	0.04046	0.04046
background	332.8	332.8	332.8
kdM	9.834e-010	(not used)	
BmaxM	6.868e-010	(not used)	
Bmax/Kd	0.6983	(not used)	
Std. Error			
KdM	0.05607	(not used)	
BmaxM	0.01791	(not used)	
NS	0.001892	0.001892	0.001892
background	53.93	53.93	53.93
Bmax/Kd	0.02448	(not used)	
95% Confidence Intervals			
KdM	0.8703 to 1.097	(not used)	
BmaxM	0.6506 to 0.7229	(not used)	
NS	0.03664 to 0.04428	0.03664 to 0.04428	0.03664 to 0.04428
background	223.9 to 441.7	223.9 to 441.7	223.9 to 441.7
kdM	8.703e-010 to 1.097e-009	(not used)	
BmaxM	6.506e-010 to 7.229e-010	(not used)	
Bmax/Kd	0.6489 to 0.7478	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9966	0.9747	0.9968
Absolute Sum of Squares	1.783e+006	593027	2.376e+006
Sy.x			237.9
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: CEETOX, Run ID: CERI 20090122 saturation # 4, Run Date: 1/22/09
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Laboratory: CEETOX, Run ID: CERI 20090122 saturation # 4, Run Date: 1/22/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
797.000	792	328
797.000	780	460
797.000	856	112
1405.000	1200	428
1405.000	1112	684
1405.000	1116	260
2489.000	1876	476
2489.000	1992	632
2489.000	1728	344
4774.000	3280	576
4774.000	3436	736
4774.000	2932	472
9269.000	5636	828
9269.000	5660	968
9269.000	4964	764
18320.000	8772	1324
18320.000	8820	1176
18320.000	7684	956
36958.000	12388	1976
36958.000	11852	1948
36958.000	10604	1752
77052.000	16232	3656
77052.000	15996	3264
77052.000	14436	3296

Outliers

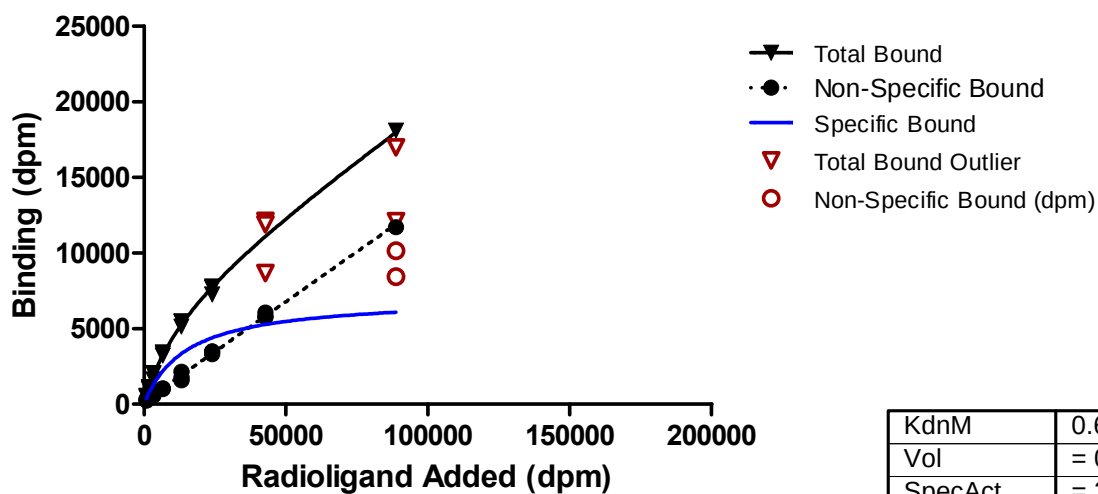
Total Added (dpm)	Total Bound (dpm)
36958.000	10604.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2651	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.5614	(not used)	
NS	0.05000	0.05000	0.05000
BmaxM	5.614e-010	(not used)	
Bmax/Kd	2.118	(not used)	
Std. Error			
KdnM	0.02856	(not used)	
BmaxnM	0.01650	(not used)	
NS	0.002876	0.002876	0.002876
Bmax/Kd	0.1829	(not used)	
95% Confidence Intervals			
KdnM	0.2075 to 0.3227	(not used)	
BmaxnM	0.5281 to 0.5947	(not used)	
NS	0.04420 to 0.05580	0.04420 to 0.05580	0.04420 to 0.05580
BmaxM	5.281e-010 to 5.947e-010	(not used)	
Bmax/Kd	1.749 to 2.487	(not used)	
Goodness of Fit			
Degrees of Freedom			44
R square	0.9929	0.8757	0.9919
Absolute Sum of Squares	4.206e+006	2.918e+006	7.125e+006
Sy.x			402.4
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	23	24	
Outliers (excluded, Q=1.0%)	1	0	

Laboratory: Lovelace, **Run ID:** C-sat3, **Run Date:** 11/20/08
Protocol: CER1

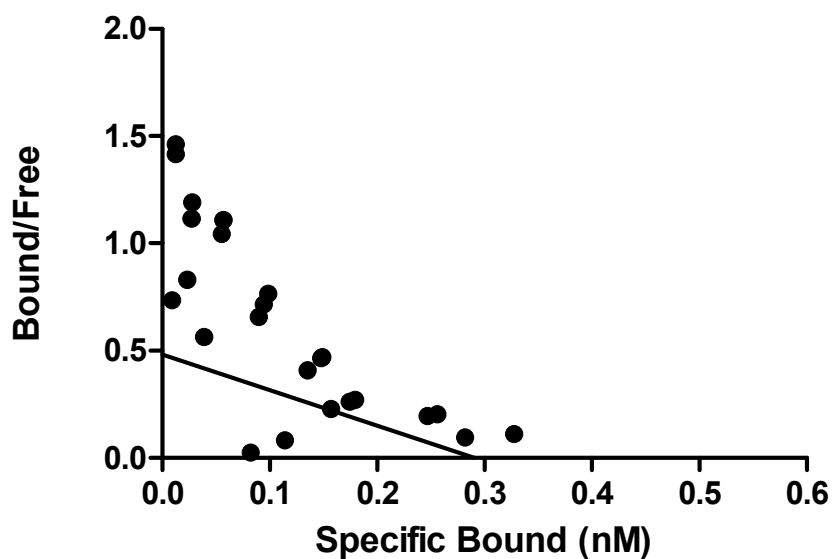
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.6029
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.2905

Std. Error	
KdnM	0.05237
BmaxnM	0.01121

Scatchard Plot



Laboratory: Lovelace, Run ID: C-sat3, Run Date: 11/20/08
Protocol: CER1

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
791.000	576	236
791.000	580	232
791.000	492	348
1703.000	1132	448
1703.000	1112	484
1703.000	1020	424
3314.000	2064	568
3314.000	2024	788
3314.000	1628	676
6563.000	3428	1024
6563.000	3336	1056
6563.000	3224	1000
13201.000	5480	1600
13201.000	5452	1780
13201.000	5140	2148
23955.000	7692	3460
23955.000	7808	3508
23955.000	7264	3316
42751.000	12136	5784
42751.000	11912	6072
42751.000	8676	5796
88727.000	18104	11716
88727.000	16984	10152
88727.000	12112	8440

Outliers

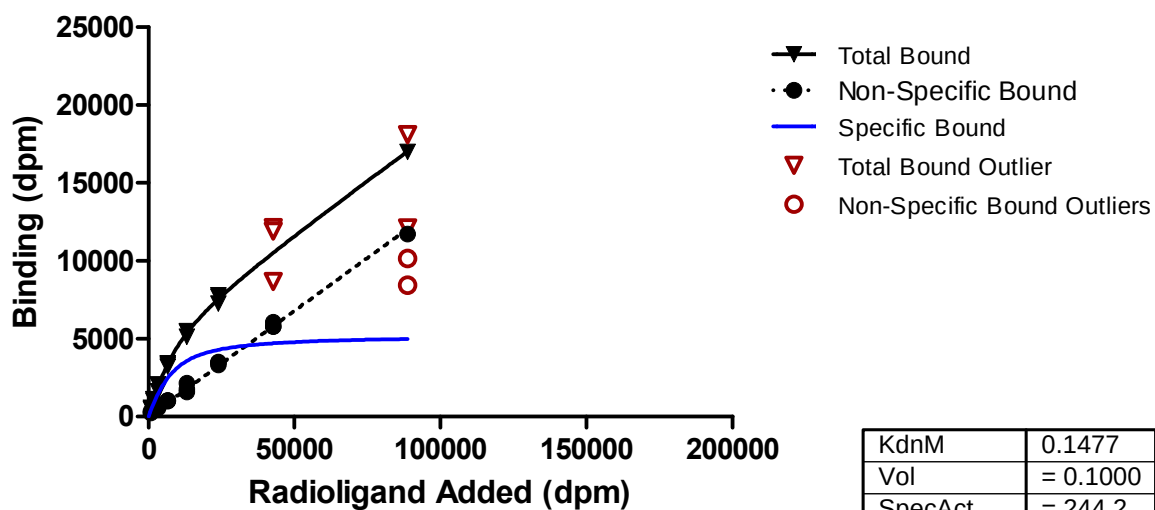
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
42751.000	12136.000	
42751.000	11912.000	
42751.000	8676.000	
88727.000	16984.000	
88727.000	12112.000	
88727.000		10152.000
88727.000		8440.000

Nonlinear Fit Results

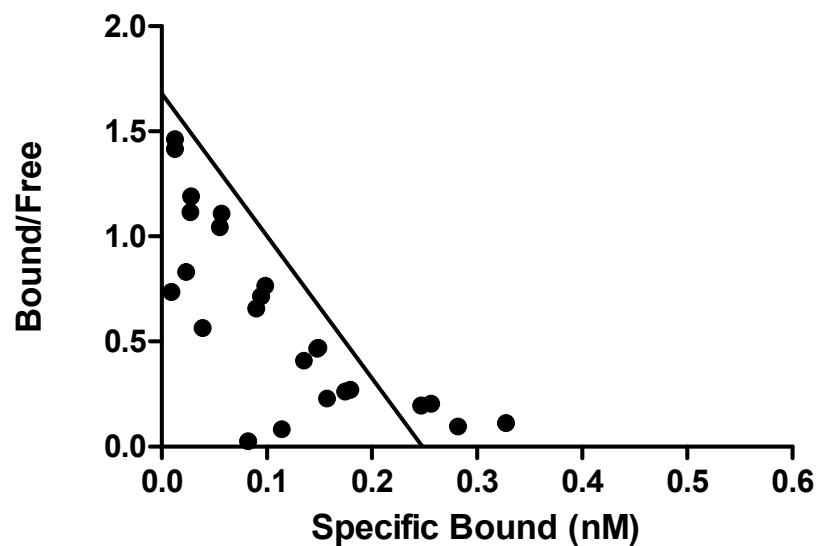
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.6029	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.2905	(not used)	
NS	0.1321	0.1321	0.1321
background	178.3	178.3	178.3
kM	6.029e-010	(not used)	
BmaxM	2.905e-010	(not used)	
Bmax/Kd	0.4818	(not used)	
Std. Error			
KdM	0.05237	(not used)	
BmaxM	0.01121	(not used)	
NS	0.001552	0.001552	0.001552
background	39.59	39.59	39.59
Bmax/Kd	0.02616	(not used)	
95% Confidence Intervals			
KdM	0.4967 to 0.7090	(not used)	
BmaxM	0.2678 to 0.3132	(not used)	
NS	0.1289 to 0.1352	0.1289 to 0.1352	0.1289 to 0.1352
background	98.03 to 258.6	98.03 to 258.6	98.03 to 258.6
kM	4.967e-010 to 7.090e-010	(not used)	
BmaxM	2.678e-010 to 3.132e-010	(not used)	
Bmax/Kd	0.4288 to 0.5349	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9983	0.9978	0.9982
Absolute Sum of Squares	548919	369349	918268
Sy.x			157.5
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	19	22	
Outliers (excluded, Q=1.0%)	5	2	

Laboratory: Lovelace, Run ID: C-sat3, Run Date: 11/20/08
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Lovelace, Run ID: C-sat3, Run Date: 11/20/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
791.000	576	236
791.000	580	232
791.000	492	348
1703.000	1132	448
1703.000	1112	484
1703.000	1020	424
3314.000	2064	568
3314.000	2024	788
3314.000	1628	676
6563.000	3428	1024
6563.000	3336	1056
6563.000	3224	1000
13201.000	5480	1600
13201.000	5452	1780
13201.000	5140	2148
23955.000	7692	3460
23955.000	7808	3508
23955.000	7264	3316
42751.000	12136	5784
42751.000	11912	6072
42751.000	8676	5796
88727.000	18104	11716
88727.000	16984	10152
88727.000	12112	8440

Outliers

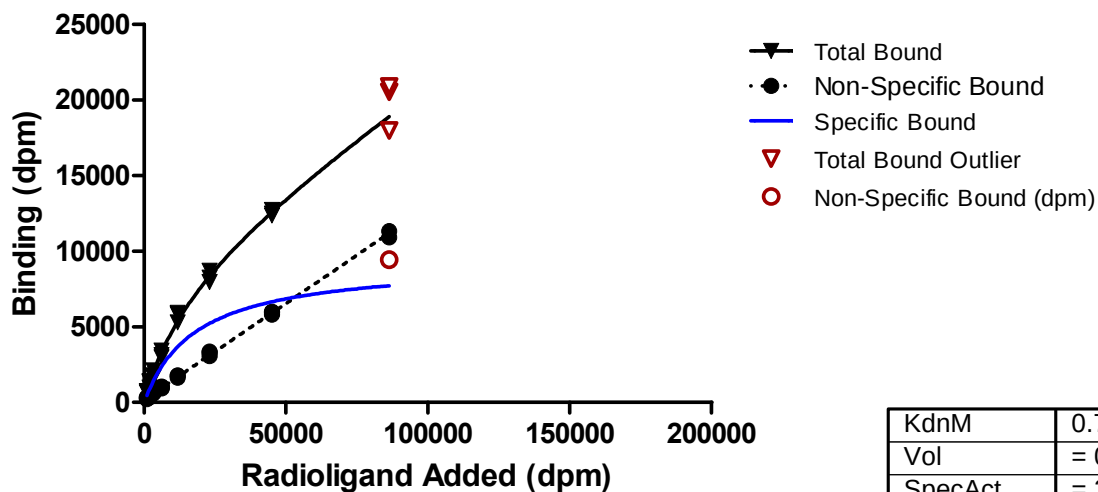
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
42751.000	12136.000	
42751.000	11912.000	
42751.000	8676.000	
88727.000	18104.000	
88727.000	12112.000	
88727.000		10152.000
88727.000		8440.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.1477	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.2482	(not used)	
NS	0.1571	0.1571	0.1571
BmaxM	2.482e-010	(not used)	
Bmax/Kd	1.680	(not used)	
Std. Error			
KdnM	0.01775	(not used)	
BmaxnM	0.008870	(not used)	
NS	0.001907	0.001907	0.001907
Bmax/Kd	0.1549	(not used)	
95% Confidence Intervals			
KdnM	0.1118 to 0.1836	(not used)	
BmaxnM	0.2303 to 0.2662	(not used)	
NS	0.1532 to 0.1609	0.1532 to 0.1609	0.1532 to 0.1609
BmaxM	2.303e-010 to 2.662e-010	(not used)	
Bmax/Kd	1.367 to 1.994	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9986	0.9944	0.9972
Absolute Sum of Squares	409496	931702	1.341e+006
Sy.x			187.9
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	19	22	
Outliers (excluded, Q=1.0%)	5	2	

Laboratory: Lovelace, Run ID: C-sat4, Run Date: 11/21/08
Protocol: CERI

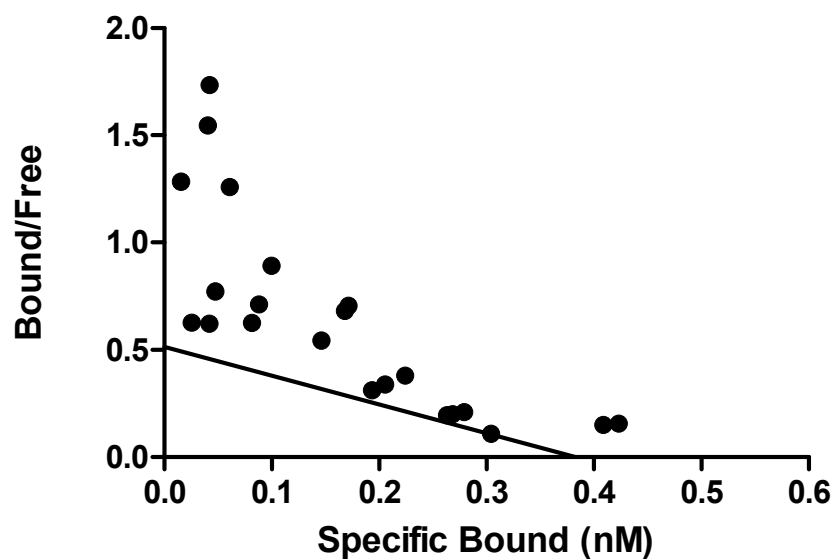
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.7430
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.3825

Std. Error	
KdnM	0.06612
BmaxnM	0.01479

Scatchard Plot



Laboratory: Lovelace, Run ID: C-sat4, Run Date: 11/21/08
Protocol: CER1

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
976.000	680	224
976.000	764	324
976.000	752	352
1993.000	1356	340
1993.000	1400	364
1993.000	996	408
3305.000	2124	608
3305.000	1800	672
3305.000	1660	632
6165.000	3144	920
6165.000	2984	1052
6165.000	3432	1004
11859.000	5300	1792
11859.000	5920	1636
11859.000	5840	1768
23065.000	8712	3292
23065.000	7960	3064
23065.000	8256	3360
45085.000	12356	5832
45085.000	12744	6008
45085.000	12488	5952
86385.000	17996	9448
86385.000	20552	10920
86385.000	20908	11344

Outliers

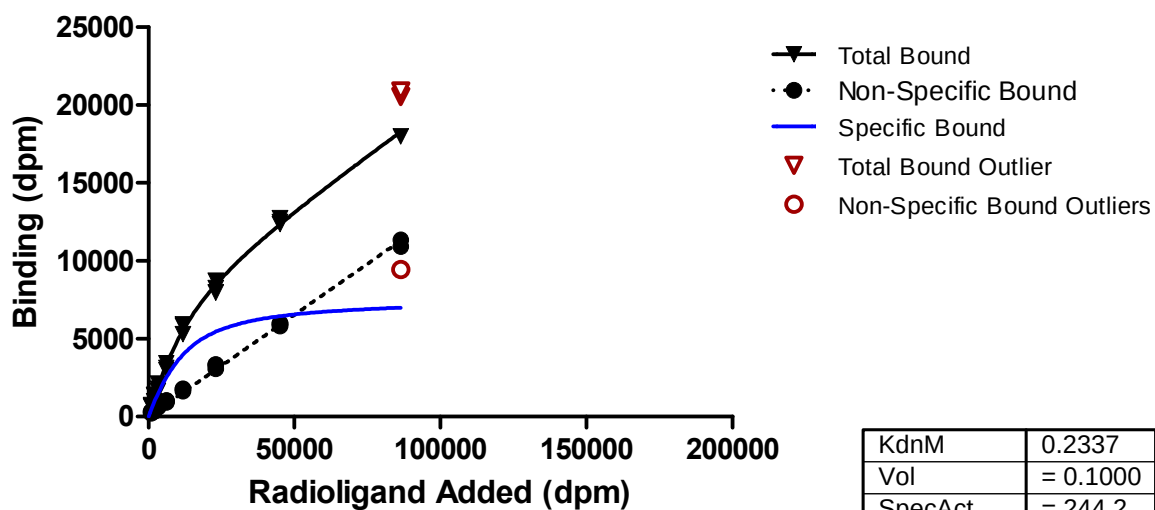
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
86385.000	17996.000	
86385.000	20552.000	
86385.000	20908.000	
86385.000		9448.000

Nonlinear Fit Results

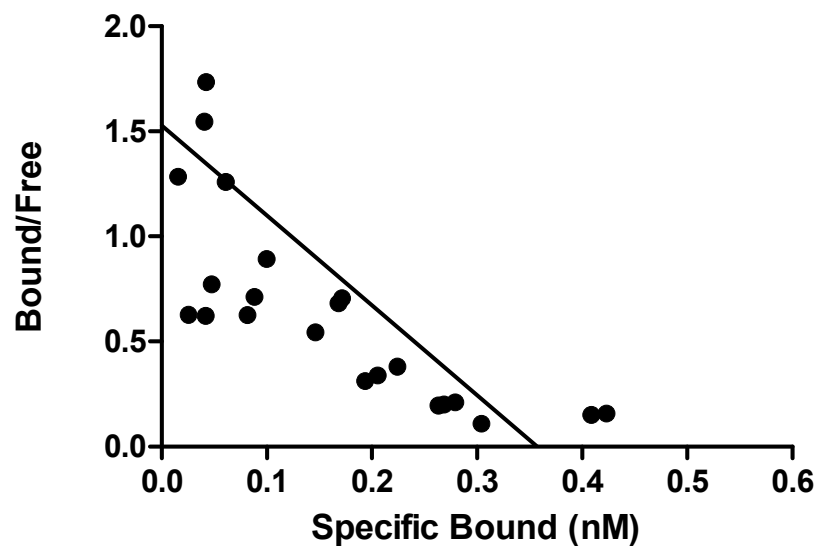
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdnM	0.7430	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3825	(not used)	
NS	0.1276	0.1276	0.1276
background	166.2	166.2	166.2
kdM	7.430e-010	(not used)	
BmaxM	3.825e-010	(not used)	
Bmax/Kd	0.5148	(not used)	
Std. Error			
KdnM	0.06612	(not used)	
BmaxnM	0.01479	(not used)	
NS	0.001657	0.001657	0.001657
background	49.65	49.65	49.65
Bmax/Kd	0.02853	(not used)	
95% Confidence Intervals			
KdnM	0.6094 to 0.8766	(not used)	
BmaxnM	0.3526 to 0.4124	(not used)	
NS	0.1243 to 0.1310	0.1243 to 0.1310	0.1243 to 0.1310
background	65.90 to 266.6	65.90 to 266.6	65.90 to 266.6
kdM	6.094e-010 to 8.766e-010	(not used)	
BmaxM	3.526e-010 to 4.124e-010	(not used)	
Bmax/Kd	0.4572 to 0.5725	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9959	0.9988	0.9973
Absolute Sum of Squares	1.387e+006	275449	1.663e+006
Sy.x			203.9
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	21	23	
Outliers (excluded, Q=1.0%)	3	1	

Laboratory: Lovelace, Run ID: C-sat4, Run Date: 11/21/08
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Lovelace, Run ID: C-sat4, Run Date: 11/21/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
976.000	680	224
976.000	764	324
976.000	752	352
1993.000	1356	340
1993.000	1400	364
1993.000	996	408
3305.000	2124	608
3305.000	1800	672
3305.000	1660	632
6165.000	3144	920
6165.000	2984	1052
6165.000	3432	1004
11859.000	5300	1792
11859.000	5920	1636
11859.000	5840	1768
23065.000	8712	3292
23065.000	7960	3064
23065.000	8256	3360
45085.000	12356	5832
45085.000	12744	6008
45085.000	12488	5952
86385.000	17996	9448
86385.000	20552	10920
86385.000	20908	11344

Outliers

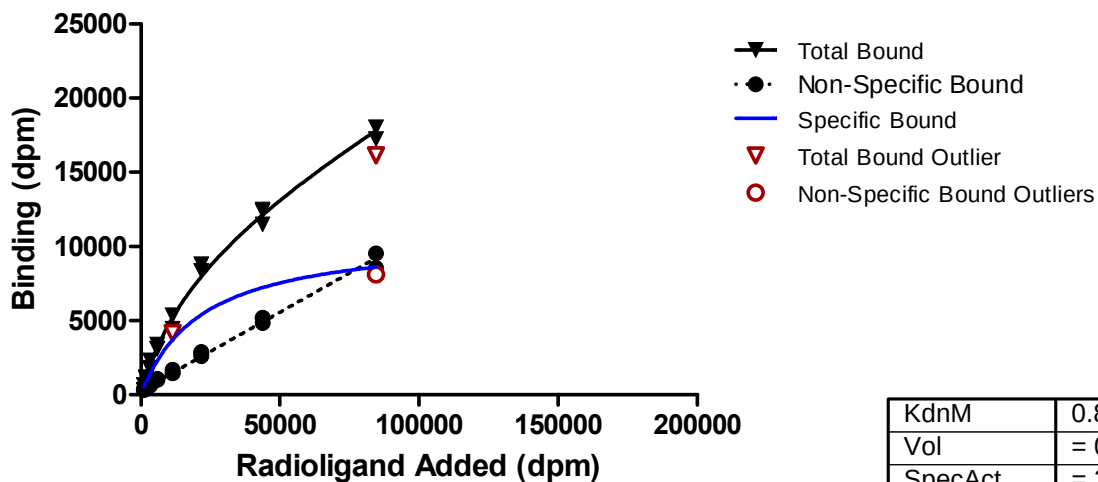
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
86385.000	20552.000	
86385.000	20908.000	
86385.000		9448.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2337	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3570	(not used)	
NS	0.1503	0.1503	0.1503
BmaxM	3.570e-010	(not used)	
Bmax/Kd	1.528	(not used)	
Std. Error			
KdnM	0.02232	(not used)	
BmaxnM	0.01012	(not used)	
NS	0.001956	0.001956	0.001956
Bmax/Kd	0.1126	(not used)	
95% Confidence Intervals			
KdnM	0.1887 to 0.2788	(not used)	
BmaxnM	0.3366 to 0.3775	(not used)	
NS	0.1464 to 0.1543	0.1464 to 0.1543	0.1464 to 0.1543
BmaxM	3.366e-010 to 3.775e-010	(not used)	
Bmax/Kd	1.300 to 1.755	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9973	0.9963	0.9973
Absolute Sum of Squares	1.364e+006	852017	2.216e+006
Sy.x			229.7
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	22	23	
Outliers (excluded, Q=1.0%)	2	1	

Laboratory: Lovelace, Run ID: C-sat5, Run Date: 11/25/08
Protocol: CERI

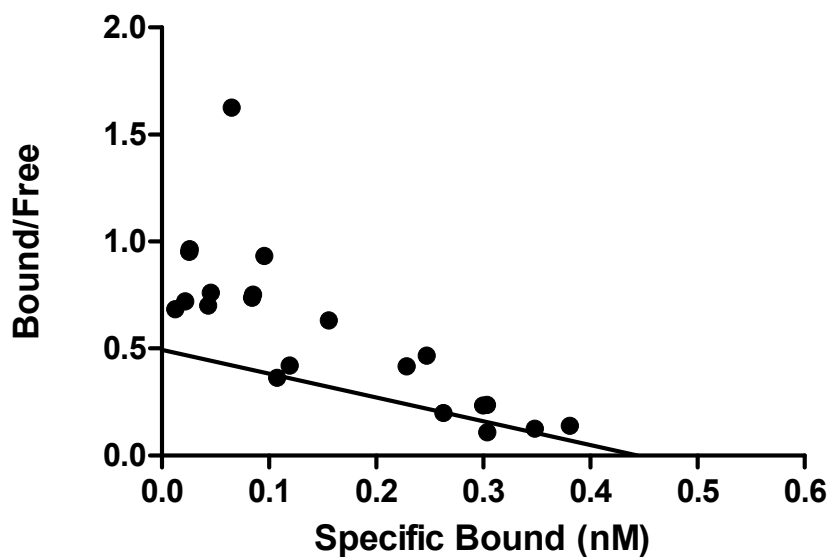
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.8973
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.4440

Std. Error	
KdnM	0.1100
BmaxnM	0.02287

Scatchard Plot



Laboratory: Lovelace, Run ID: C-sat5, Run Date: 11/25/08
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1106.000	344	384
1106.000	664	380
1106.000	320	320
1827.000	1172	672
1827.000	1176	472
1827.000	1084	500
3274.000	1764	608
3274.000	2296	756
3274.000	1816	756
5881.000	3120	1020
5881.000	3096	1024
5881.000	3376	1080
11365.000	4164	1440
11365.000	4448	1488
11365.000	5348	1696
21695.000	8352	2624
21695.000		2892
21695.000	8808	2804
43690.000	12392	5172
43690.000	11492	4848
43690.000	12480	5192
84549.000	16160	8124
84549.000	17244	8560
84549.000	18036	9536

Outliers

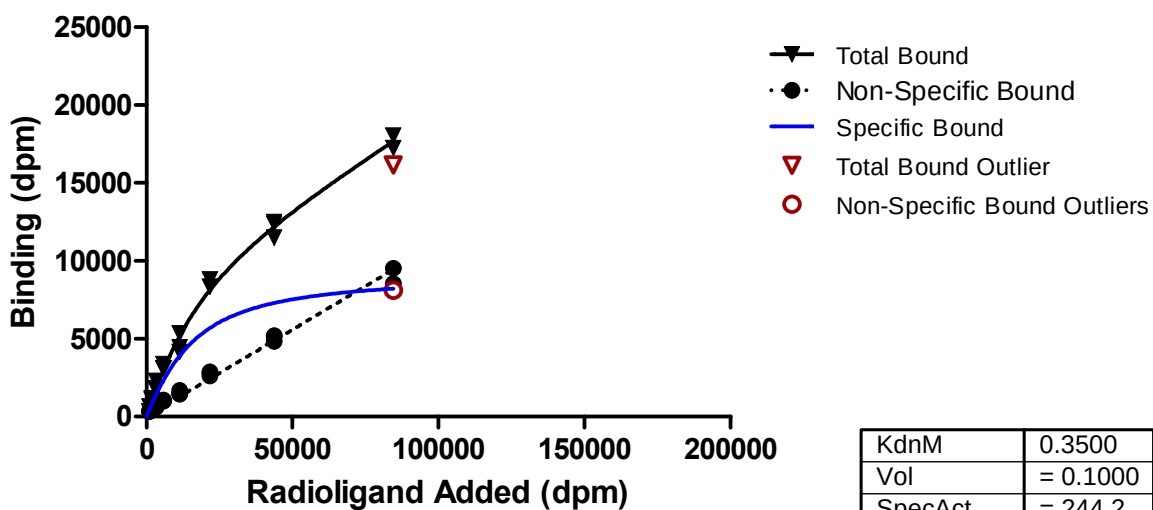
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
11365.000	4164.000	
84549.000	16160.000	
84549.000		8124.000

Nonlinear Fit Results

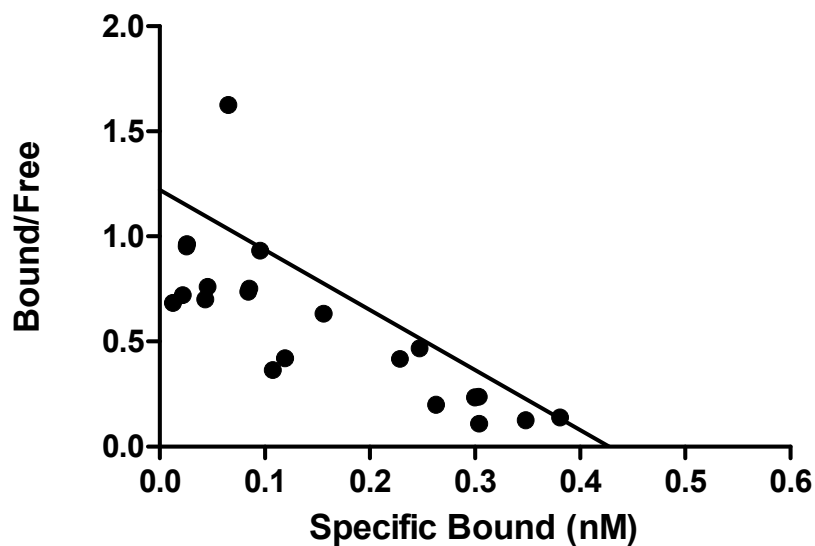
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.8973	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.4440	(not used)	
NS	0.1057	0.1057	0.1057
background	277.0	277.0	277.0
kM	8.973e-010	(not used)	
BmaxM	4.440e-010	(not used)	
Bmax/Kd	0.4949	(not used)	
Std. Error			
KdM	0.1100	(not used)	
BmaxM	0.02287	(not used)	
NS	0.002789	0.002789	0.002789
background	80.96	80.96	80.96
Bmax/Kd	0.03933	(not used)	
95% Confidence Intervals			
KdM	0.6750 to 1.120	(not used)	
BmaxM	0.3978 to 0.4903	(not used)	
NS	0.1001 to 0.1113	0.1001 to 0.1113	0.1001 to 0.1113
background	113.4 to 440.6	113.4 to 440.6	113.4 to 440.6
kM	6.750e-010 to 1.120e-009	(not used)	
BmaxM	3.978e-010 to 4.903e-010	(not used)	
Bmax/Kd	0.4154 to 0.5743	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9945	0.9930	0.9950
Absolute Sum of Squares	3.470e+006	1.055e+006	4.524e+006
Sy.x			336.3
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	21	23	
Outliers (excluded, Q=1.0%)	2	1	

Laboratory: Lovelace, Run ID: C-sat5, Run Date: 11/25/08
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Lovelace, Run ID: C-sat5, Run Date: 11/25/08
Protocol: CERl

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1106.000	344	384
1106.000	664	380
1106.000	320	320
1827.000	1172	672
1827.000	1176	472
1827.000	1084	500
3274.000	1764	608
3274.000	2296	756
3274.000	1816	756
5881.000	3120	1020
5881.000	3096	1024
5881.000	3376	1080
11365.000	4164	1440
11365.000	4448	1488
11365.000	5348	1696
21695.000	8352	2624
21695.000		2892
21695.000	8808	2804
43690.000	12392	5172
43690.000	11492	4848
43690.000	12480	5192
84549.000	16160	8124
84549.000	17244	8560
84549.000	18036	9536

Outliers

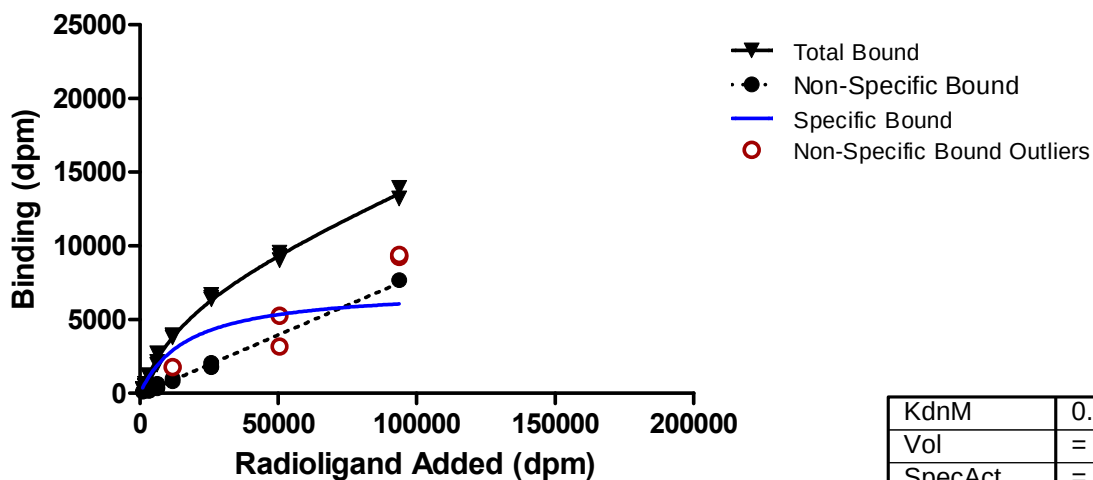
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
84549.000	16160.000	
84549.000		8124.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3500	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.4275	(not used)	
NS	0.1257	0.1257	0.1257
BmaxM	4.275e-010	(not used)	
Bmax/Kd	1.221	(not used)	
Std. Error			
KdnM	0.04927	(not used)	
BmaxnM	0.01963	(not used)	
NS	0.003359	0.003359	0.003359
Bmax/Kd	0.1295	(not used)	
95% Confidence Intervals			
KdnM	0.2505 to 0.4495	(not used)	
BmaxnM	0.3879 to 0.4671	(not used)	
NS	0.1190 to 0.1325	0.1190 to 0.1325	0.1190 to 0.1325
BmaxM	3.879e-010 to 4.671e-010	(not used)	
Bmax/Kd	0.9600 to 1.483	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9942	0.9800	0.9926
Absolute Sum of Squares	3.701e+006	2.997e+006	6.698e+006
Sy.x			399.3
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	22	23	
Outliers (excluded, Q=1.0%)	1	1	

Laboratory: Missouri, Run ID: 2001, Run Date: 1/17/09
Protocol: CERI

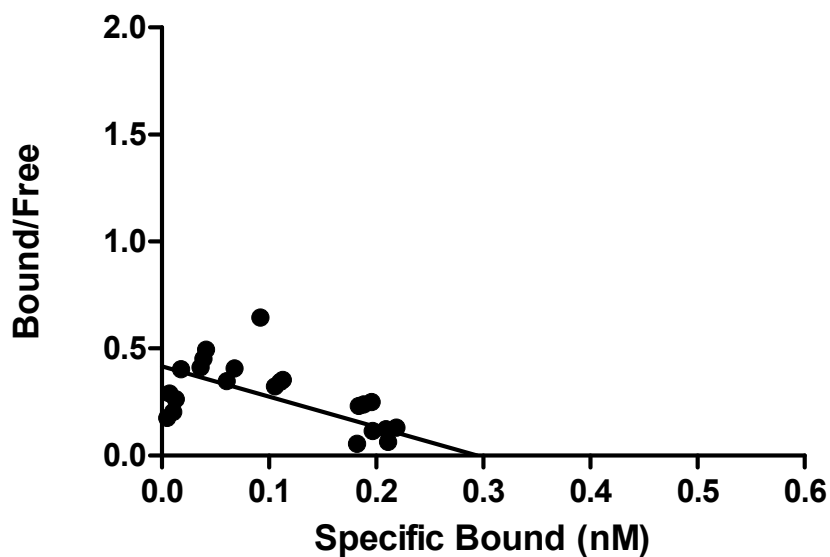
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.7059
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.2941

Std. Error	
KdnM	0.07124
BmaxnM	0.01280

Scatchard Plot



Laboratory: Missouri, Run ID: 2001, Run Date: 1/17/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
905.000	295	118
905.000	295	118
905.000	236	118
1722.000	649	295
1722.000	531	177
1722.000	472	177
3266.000	1121	177
3266.000	1239	354
3266.000	1180	177
6188.000	2125	354
6188.000	2715	413
6188.000	1948	649
11746.000	3896	1771
11746.000	3777	1003
11746.000	3955	826
25714.000	6670	2066
25714.000	6374	1830
25714.000	6493	1771
50406.000	9031	3187
50406.000	9326	5253
50406.000	9562	
93591.000	13221	7673
93591.000	13221	9267
93591.000	13929	9385

Outliers

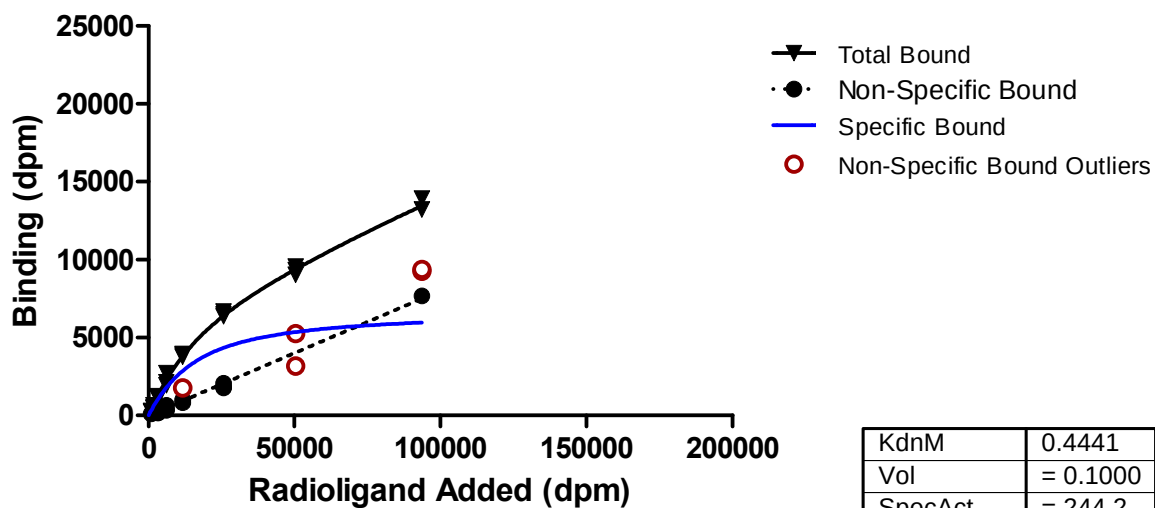
Total Added (dpm)	Non-Specific Bound (dpm)
11746.000	1771.000
50406.000	3187.000
50406.000	5253.000
93591.000	9267.000
93591.000	9385.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.7059	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.2941	(not used)	
NS	0.08054	0.08054	0.08054
background	-66.97	-66.97	-66.97
kDM	7.059e-010	(not used)	
BmaxM	2.941e-010	(not used)	
Bmax/Kd	0.4167	(not used)	
Std. Error			
KdM	0.07124	(not used)	
BmaxM	0.01280	(not used)	
NS	0.002149	0.002149	0.002149
background	51.37	51.37	51.37
Bmax/Kd	0.02763	(not used)	
95% Confidence Intervals			
KdM	0.5616 to 0.8502	(not used)	
BmaxM	0.2682 to 0.3201	(not used)	
NS	0.07619 to 0.08489	0.07619 to 0.08489	0.07619 to 0.08489
background	-171.0 to 37.06	-171.0 to 37.06	-171.0 to 37.06
kDM	5.616e-010 to 8.502e-010	(not used)	
BmaxM	2.682e-010 to 3.201e-010	(not used)	
Bmax/Kd	0.3608 to 0.4727	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9973	0.9937	0.9976
Absolute Sum of Squares	1.264e+006	336552	1.601e+006
Sy.x			205.3
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	24	18	
Outliers (excluded, Q=1.0%)	0	5	

Laboratory: Missouri, Run ID: 2001, Run Date: 1/17/09
Protocol: CER1

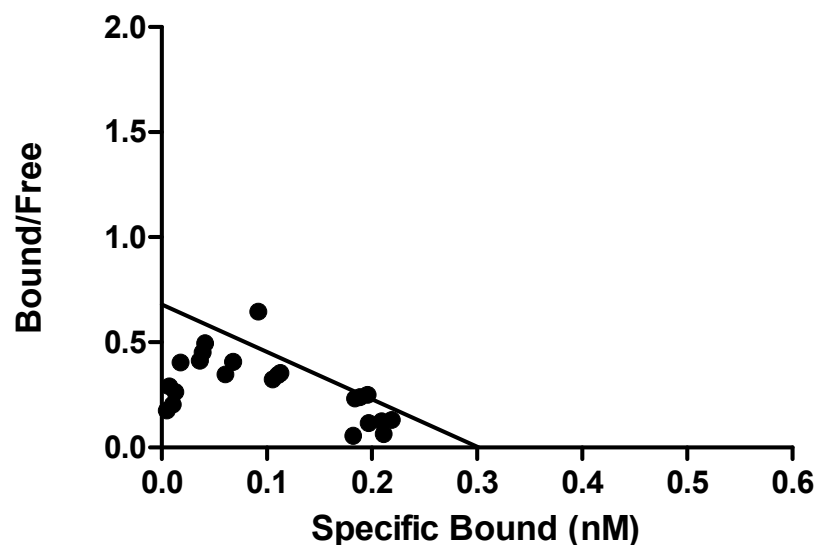
One Site - Total+NSB account for ligand depletion



KdnM	0.4441
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.3016

Std. Error	
KdnM	0.03825
BmaxnM	0.01034

Scatchard Plot



Laboratory: Missouri, Run ID: 2001, Run Date: 1/17/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
905.000	295	118
905.000	295	118
905.000	236	118
1722.000	649	295
1722.000	531	177
1722.000	472	177
3266.000	1121	177
3266.000	1239	354
3266.000	1180	177
6188.000	2125	354
6188.000	2715	413
6188.000	1948	649
11746.000	3896	1771
11746.000	3777	1003
11746.000	3955	826
25714.000	6670	2066
25714.000	6374	1830
25714.000	6493	1771
50406.000	9031	3187
50406.000	9326	5253
50406.000	9562	
93591.000	13221	7673
93591.000	13221	9267
93591.000	13929	9385

Outliers

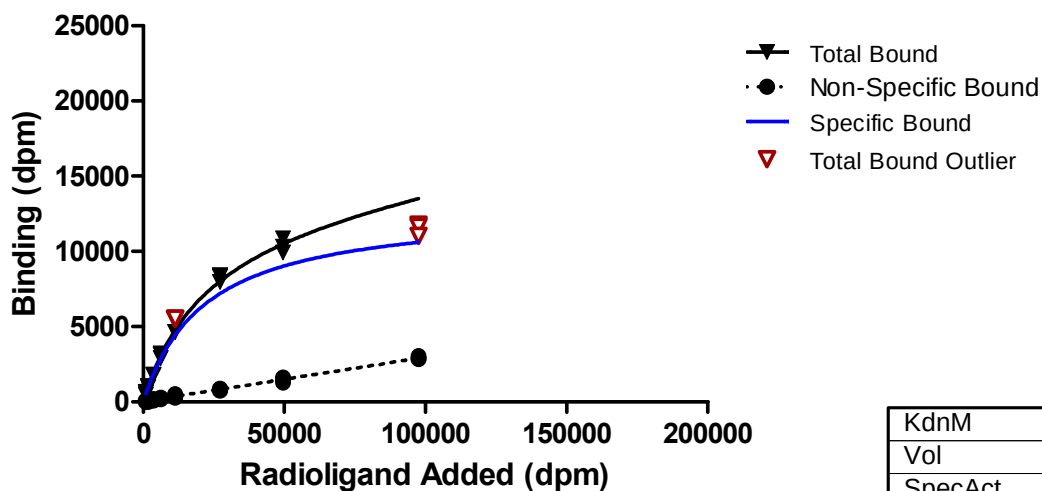
Total Added (dpm)	Non-Specific Bound (dpm)
11746.000	1771.000
50406.000	3187.000
50406.000	5253.000
93591.000	9267.000
93591.000	9385.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.4441	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.3016	(not used)	
NS	0.08697	0.08697	0.08697
BmaxM	3.016e-010	(not used)	
Bmax/Kd	0.6790	(not used)	
Std. Error			
KdnM	0.03825	(not used)	
BmaxnM	0.01034	(not used)	
NS	0.002020	0.002020	0.002020
Bmax/Kd	0.04100	(not used)	
95% Confidence Intervals			
KdnM	0.3667 to 0.5215	(not used)	
BmaxnM	0.2806 to 0.3225	(not used)	
NS	0.08288 to 0.09105	0.08288 to 0.09105	0.08288 to 0.09105
BmaxM	2.806e-010 to 3.225e-010	(not used)	
Bmax/Kd	0.5961 to 0.7620	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9976	0.9946	0.9979
Absolute Sum of Squares	1.123e+006	292068	1.415e+006
Sy.x			190.5
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	18	
Outliers (excluded, Q=1.0%)	0	5	

Laboratory: Missouri, Run ID: 2005, Run Date: 1/30/09
Protocol: CERI

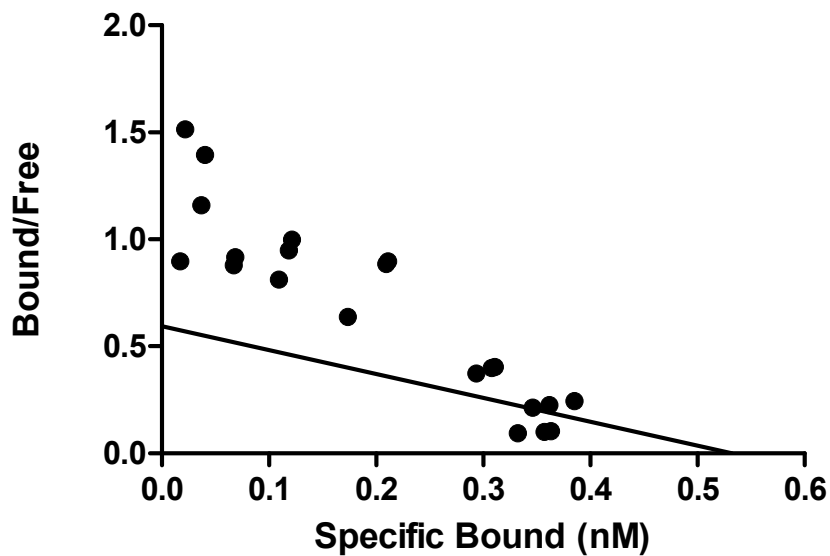
One Site - Total+NSB No Adj for ligand depletion



KdnM	0.8954
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.5317

Std. Error	
KdnM	0.05418
BmaxnM	0.01345

Scatchard Plot



Laboratory: Missouri, Run ID: 2005, Run Date: 1/30/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
942.000	476	19
942.000	666	95
942.000	590	57
1748.000	971	19
1748.000	1047	133
1748.000	1047	57
3633.000	1809	95
3633.000	1809	171
3633.000	1771	133
6191.000	3141	171
6191.000	2913	286
6191.000	3218	286
11280.000	4626	286
11280.000	5502	362
11280.000	5540	514
27178.000	7977	743
27178.000	8396	857
27178.000	8320	819
49516.000	10300	1276
49516.000	9919	1504
49516.000	10871	1618
97519.000	11785	2837
97519.000	11633	2875
97519.000	11023	3027

Outliers

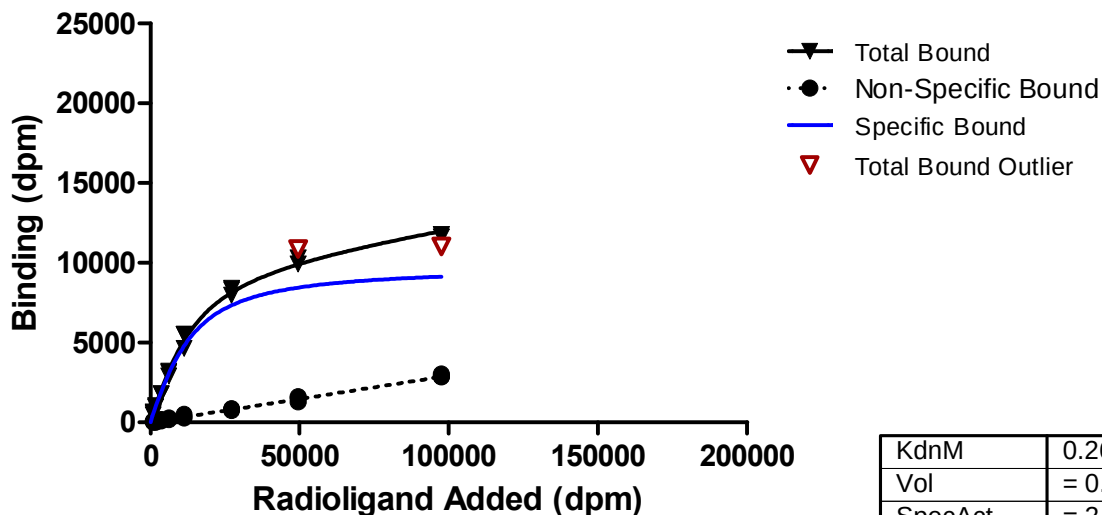
Total Added (dpm)	Total Bound (dpm)
11280.000	5502.000
11280.000	5540.000
97519.000	11785.000
97519.000	11633.000
97519.000	11023.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.8954	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.5317	(not used)	
NS	0.02958	0.02958	0.02958
background	14.50	14.50	14.50
kdM	8.954e-010	(not used)	
BmaxM	5.317e-010	(not used)	
Bmax/Kd	0.5938	(not used)	
Std. Error			
KdM	0.05418	(not used)	
BmaxM	0.01345	(not used)	
NS	0.001048	0.001048	0.001048
background	39.59	39.59	39.59
Bmax/Kd	0.02262	(not used)	
95% Confidence Intervals			
KdM	0.7858 to 1.005	(not used)	
BmaxM	0.5045 to 0.5589	(not used)	
NS	0.02746 to 0.03170	0.02746 to 0.03170	0.02746 to 0.03170
background	-65.61 to 94.60	-65.61 to 94.60	-65.61 to 94.60
kdM	7.858e-010 to 1.005e-009	(not used)	
BmaxM	5.045e-010 to 5.589e-010	(not used)	
Bmax/Kd	0.5480 to 0.6396	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9963	0.9928	0.9973
Absolute Sum of Squares	933833	150583	1.084e+006
Sy.x			166.8
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	19	24	
Outliers (excluded, Q=1.0%)	5	0	

Laboratory: Missouri, Run ID: 2005, Run Date: 1/30/09
Protocol: CER1

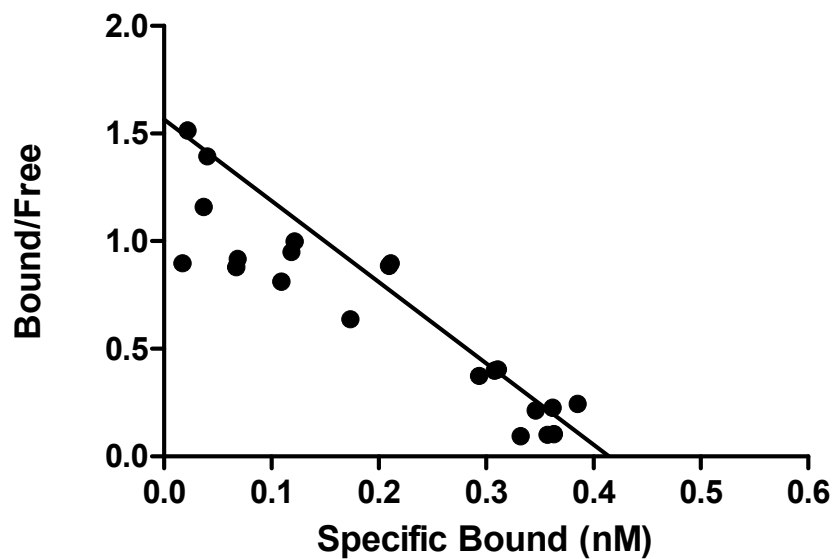
One Site - Total+NSB account for ligand depletion



KdnM	0.2646
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.4144

Std. Error	
KdnM	0.01586
BmaxnM	0.006731

Scatchard Plot



Laboratory: Missouri, Run ID: 2005, Run Date: 1/30/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
942.000	476	19
942.000	666	95
942.000	590	57
1748.000	971	19
1748.000	1047	133
1748.000	1047	57
3633.000	1809	95
3633.000	1809	171
3633.000	1771	133
6191.000	3141	171
6191.000	2913	286
6191.000	3218	286
11280.000	4626	286
11280.000	5502	362
11280.000	5540	514
27178.000	7977	743
27178.000	8396	857
27178.000	8320	819
49516.000	10300	1276
49516.000	9919	1504
49516.000	10871	1618
97519.000	11785	2837
97519.000	11633	2875
97519.000	11023	3027

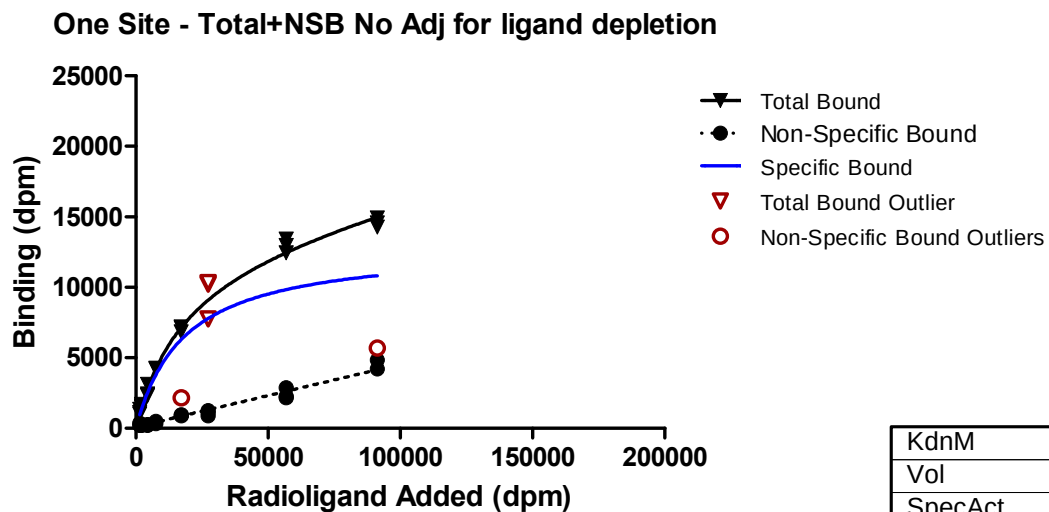
Outliers

Total Added (dpm)	Total Bound (dpm)
49516.000	10871.000
97519.000	11023.000

Nonlinear Fit Results

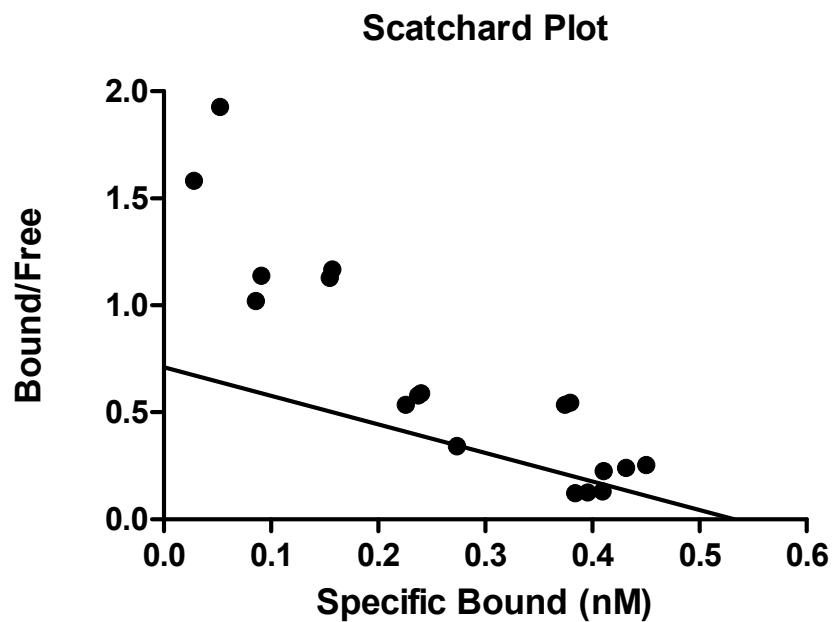
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2646	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.4144	(not used)	
NS	0.03011	0.03011	0.03011
BmaxM	4.144e-010	(not used)	
Bmax/Kd	1.566	(not used)	
Std. Error			
KdnM	0.01586	(not used)	
BmaxnM	0.006731	(not used)	
NS	0.0009982	0.0009982	0.0009982
Bmax/Kd	0.07541	(not used)	
95% Confidence Intervals			
KdnM	0.2326 to 0.2967	(not used)	
BmaxnM	0.4008 to 0.4280	(not used)	
NS	0.02809 to 0.03212	0.02809 to 0.03212	0.02809 to 0.03212
BmaxM	4.008e-010 to 4.280e-010	(not used)	
Bmax/Kd	1.414 to 1.718	(not used)	
Goodness of Fit			
Degrees of Freedom			43
R square	0.9958	0.9914	0.9970
Absolute Sum of Squares	1.361e+006	178270	1.539e+006
Sy.x			189.2
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	22	24	
Outliers (excluded, Q=1.0%)	2	0	

Laboratory: Missouri, Run ID: 2008, Run Date: 2/3/09
Protocol: CERI



KdnM	0.7487
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.5325

Std. Error	
KdnM	0.06018
BmaxnM	0.01588



Laboratory: Missouri, Run ID: 2008, Run Date: 2/3/09
Protocol: CERl

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1437.000	1346	200
1437.000	1117	372
1437.000	1002	372
2181.000	1518	200
2181.000	1690	258
2181.000	1575	258
4377.000	2320	258
4377.000	2434	200
4377.000	3121	200
7555.000	4267	315
7555.000	4267	487
7555.000	4210	487
17149.000	7131	888
17149.000	7188	945
17149.000	6844	2148
27305.000	10223	888
27305.000	10338	1231
27305.000	7761	1117
56802.000	13431	2262
56802.000	12973	2148
56802.000	12457	2892
91243.000	14576	4210
91243.000	14290	4840
91243.000	14920	5699

Outliers

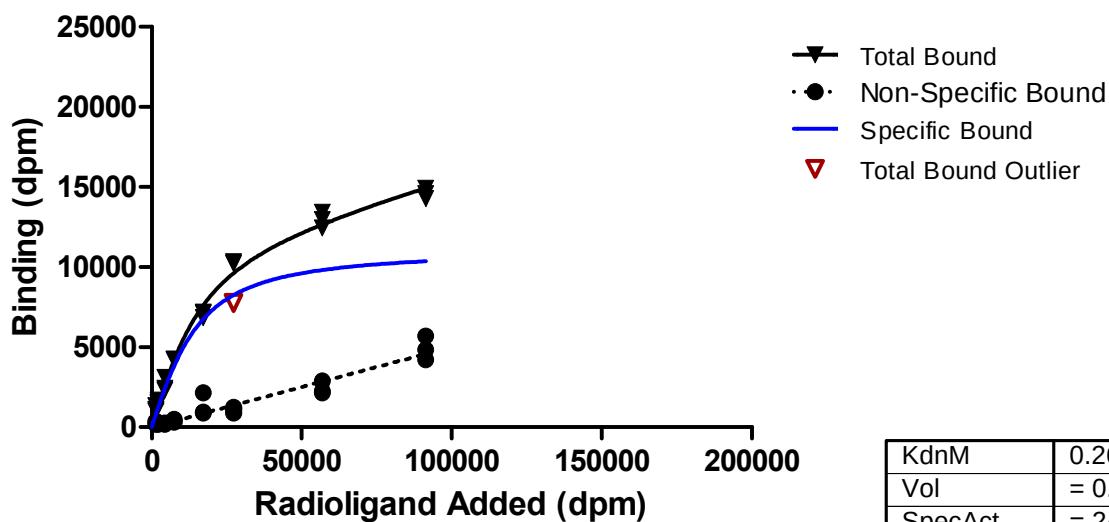
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
27305.000	10223.000	
27305.000	10338.000	
27305.000	7761.000	
17149.000		2148.000
91243.000		5699.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.7487	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.5325	(not used)	
NS	0.04438	0.04438	0.04438
background	90.91	90.91	90.91
kM	7.487e-010	(not used)	
BmaxM	5.325e-010	(not used)	
Bmax/Kd	0.7113	(not used)	
Std. Error			
KdM	0.06018	(not used)	
BmaxM	0.01588	(not used)	
NS	0.002304	0.002304	0.002304
background	80.68	80.68	80.68
Bmax/Kd	0.04050	(not used)	
95% Confidence Intervals			
KdM	0.6269 to 0.8704	(not used)	
BmaxM	0.5004 to 0.5646	(not used)	
NS	0.03972 to 0.04905	0.03972 to 0.04905	0.03972 to 0.04905
background	-72.31 to 254.1	-72.31 to 254.1	-72.31 to 254.1
kM	6.269e-010 to 8.704e-010	(not used)	
BmaxM	5.004e-010 to 5.646e-010	(not used)	
Bmax/Kd	0.6294 to 0.7932	(not used)	
Goodness of Fit			
Degrees of Freedom			39
R square	0.9954	0.9658	0.9956
Absolute Sum of Squares	2.513e+006	1.273e+006	3.787e+006
Sy.x			311.6
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	21	22	
Outliers (excluded, Q=1.0%)	3	2	

Laboratory: Missouri, Run ID: 2008, Run Date: 2/3/09
Protocol: CERI

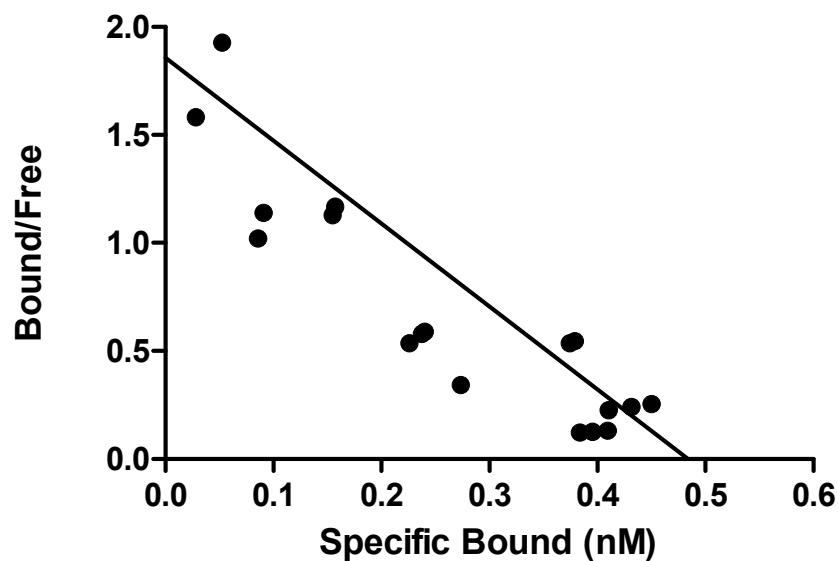
One Site - Total+NSB account for ligand depletion



KdnM	0.2606
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.4840

Std. Error	
KdnM	0.03157
BmaxnM	0.01461

Scatchard Plot



Laboratory: Missouri, Run ID: 2008, Run Date: 2/3/09
Protocol: CER1

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1437.000	1346	200
1437.000	1117	372
1437.000	1002	372
2181.000	1518	200
2181.000	1690	258
2181.000	1575	258
4377.000	2320	258
4377.000	2434	200
4377.000	3121	200
7555.000	4267	315
7555.000	4267	487
7555.000	4210	487
17149.000	7131	888
17149.000	7188	945
17149.000	6844	2148
27305.000	10223	888
27305.000	10338	1231
27305.000	7761	1117
56802.000	13431	2262
56802.000	12973	2148
56802.000	12457	2892
91243.000	14576	4210
91243.000	14290	4840
91243.000	14920	5699

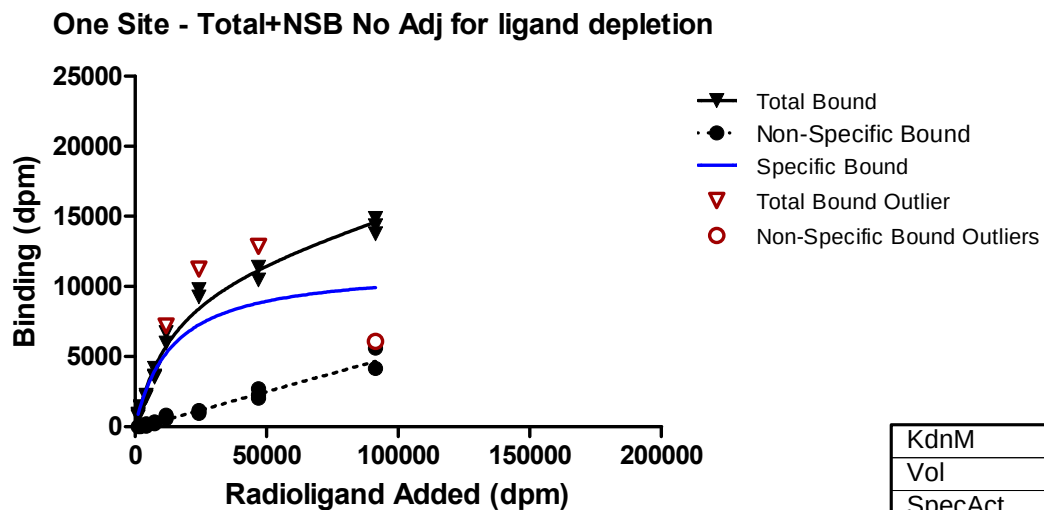
Outliers

Total Added (dpm)	Total Bound (dpm)
27305.000	7761.000

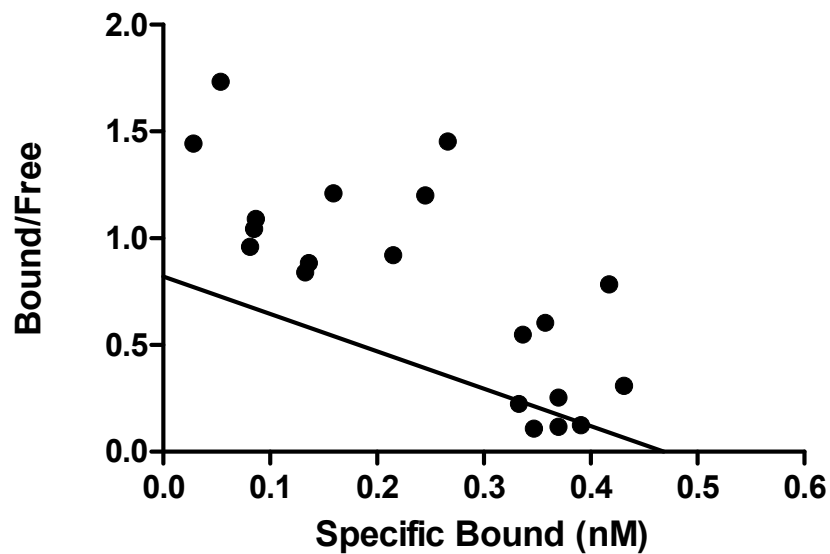
Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2606	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.4840	(not used)	
NS	0.05268	0.05268	0.05268
BmaxM	4.840e-010	(not used)	
Bmax/Kd	1.857	(not used)	
Std. Error			
KdnM	0.03157	(not used)	
BmaxnM	0.01461	(not used)	
NS	0.002447	0.002447	0.002447
Bmax/Kd	0.1848	(not used)	
95% Confidence Intervals			
KdnM	0.1969 to 0.3243	(not used)	
BmaxnM	0.4546 to 0.5135	(not used)	
NS	0.04774 to 0.05761	0.04774 to 0.05761	0.04774 to 0.05761
BmaxM	4.546e-010 to 5.135e-010	(not used)	
Bmax/Kd	1.485 to 2.230	(not used)	
Goodness of Fit			
Degrees of Freedom			44
R square	0.9932	0.9209	0.9912
Absolute Sum of Squares	3.868e+006	4.568e+006	8.436e+006
Sy.x			437.9
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	23	24	
Outliers (excluded, Q=1.0%)	1	0	

Laboratory: Missouri, Run ID: 2009, Run Date: 2/3/09
Protocol: CERI



Scatchard Plot



Laboratory: Missouri, Run ID: 2009, Run Date: 2/3/09
Protocol: CERl

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1168.000	693	
1168.000	821	7
1168.000	907	7
2089.000	1336	
2089.000	1421	7
2089.000	1336	50
4175.000	2193	93
4175.000	2107	50
4175.000	2236	221
7375.000	3521	350
7375.000	4164	264
7375.000	3607	221
11675.000	6693	821
11675.000	7207	564
11675.000	5964	736
24231.000	9264	950
24231.000	9778	1164
24231.000	11235	1036
46852.000	11364	2021
46852.000	12864	2278
46852.000	10464	2707
91243.000	14321	4164
91243.000	14835	5621
91243.000	13764	6093

Outliers

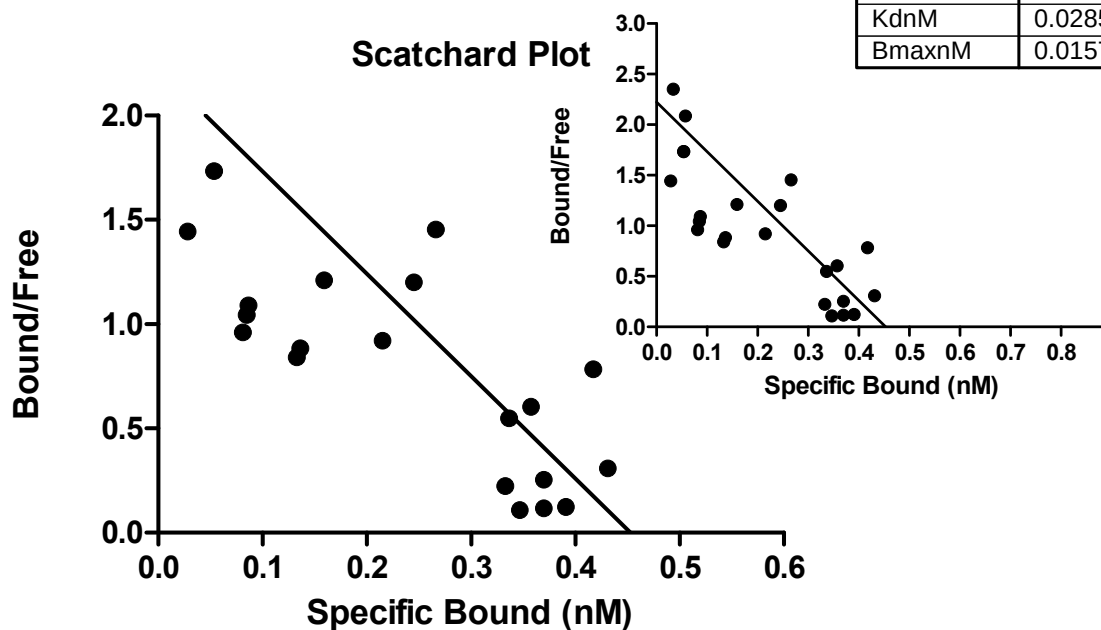
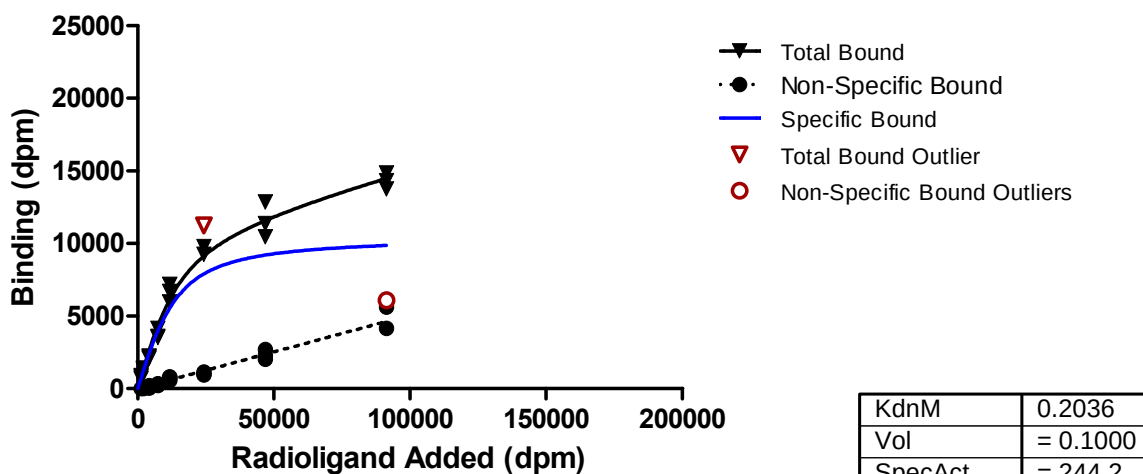
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
11675.000	7207.000	
24231.000	11235.000	
46852.000	12864.000	
91243.000		6093.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	0.5702	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.4685	(not used)	
NS	0.05238	0.05238	0.05238
background	-125.0	-125.0	-125.0
kM	5.702e-010	(not used)	
BmaxM	4.685e-010	(not used)	
Bmax/Kd	0.8216	(not used)	
Std. Error			
KdM	0.07432	(not used)	
BmaxM	0.02221	(not used)	
NS	0.003730	0.003730	0.003730
background	126.4	126.4	126.4
Bmax/Kd	0.07697	(not used)	
95% Confidence Intervals			
KdM	0.4197 to 0.7208	(not used)	
BmaxM	0.4235 to 0.5135	(not used)	
NS	0.04483 to 0.05993	0.04483 to 0.05993	0.04483 to 0.05993
background	-381.0 to 131.0	-381.0 to 131.0	-381.0 to 131.0
kM	4.197e-010 to 7.208e-010	(not used)	
BmaxM	4.235e-010 to 5.135e-010	(not used)	
Bmax/Kd	0.6657 to 0.9775	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9859	0.9623	0.9887
Absolute Sum of Squares	6.831e+006	1.688e+006	8.519e+006
Sy.x			473.5
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	21	21	
Outliers (excluded, Q=1.0%)	3	1	

Laboratory: Missouri, Run ID: 2009, Run Date: 2/3/09
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Laboratory: Missouri, Run ID: 2009, Run Date: 2/3/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1168.000	693	
1168.000	821	7
1168.000	907	7
2089.000	1336	
2089.000	1421	7
2089.000	1336	50
4175.000	2193	93
4175.000	2107	50
4175.000	2236	221
7375.000	3521	350
7375.000	4164	264
7375.000	3607	221
11675.000	6693	821
11675.000	7207	564
11675.000	5964	736
24231.000	9264	950
24231.000	9778	1164
24231.000	11235	1036
46852.000	11364	2021
46852.000	12864	2278
46852.000	10464	2707
91243.000	14321	4164
91243.000	14835	5621
91243.000	13764	6093

Outliers

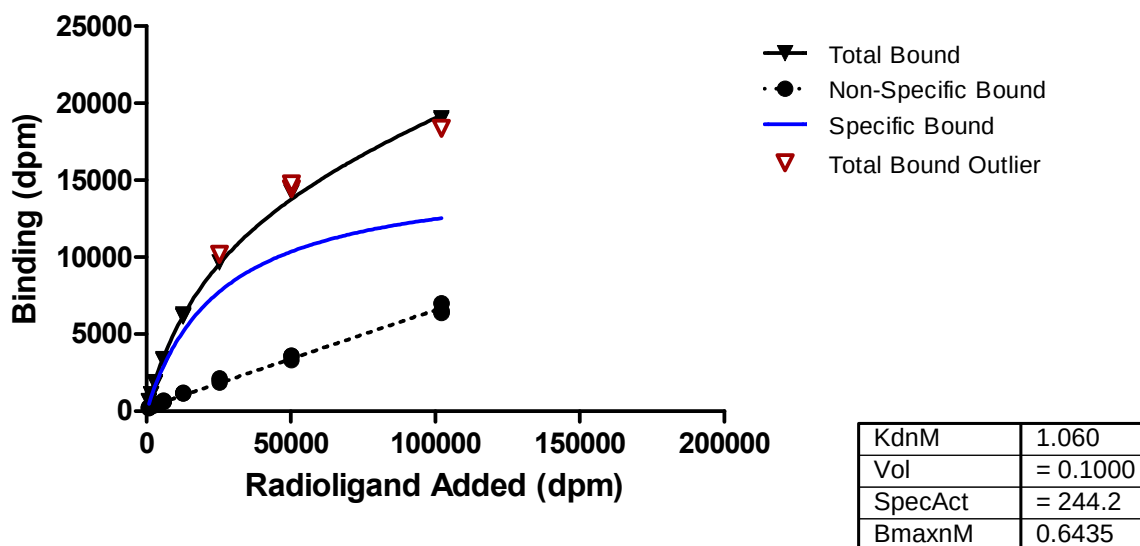
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
24231.000	11235.000	
91243.000		6093.000

Nonlinear Fit Results

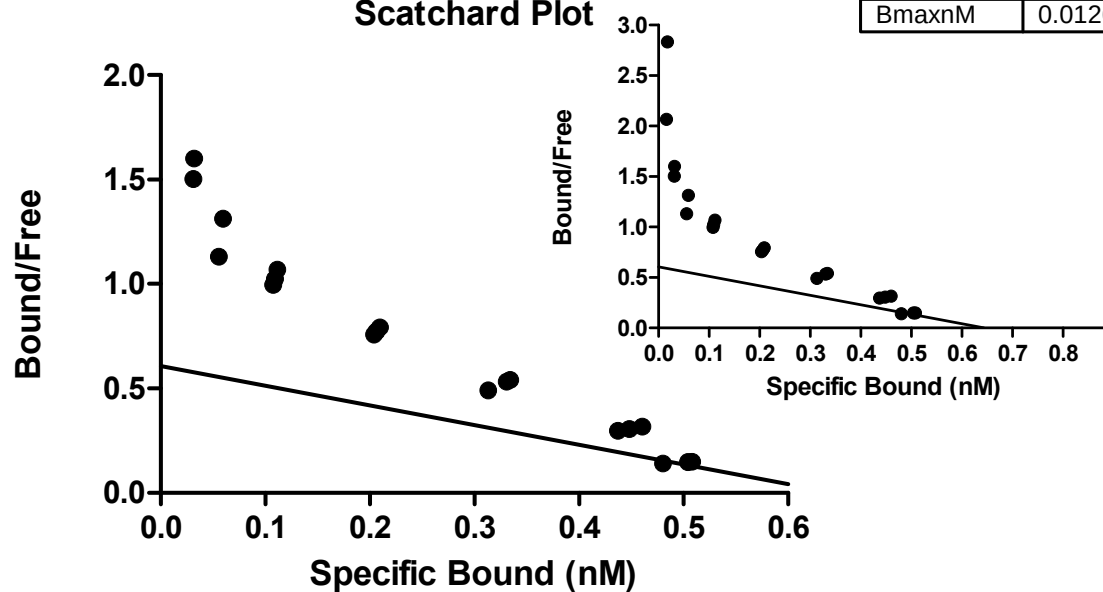
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.2036	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.4530	(not used)	
NS	0.05335		0.05335
BmaxM	4.530e-010	(not used)	
Bmax/Kd	2.225	(not used)	
Std. Error			
KdnM	0.02852	(not used)	
BmaxnM	0.01574	(not used)	
NS	0.003185	0.003185	0.003185
Bmax/Kd	0.2589	(not used)	
95% Confidence Intervals			
KdnM	0.1460 to 0.2613	(not used)	
BmaxnM	0.4212 to 0.4848	(not used)	
NS	0.04692 to 0.05979	0.04692 to 0.05979	0.04692 to 0.05979
BmaxM	4.212e-010 to 4.848e-010	(not used)	
Bmax/Kd	1.702 to 2.748	(not used)	
Goodness of Fit			
Degrees of Freedom			41
R square	0.9858	0.9612	0.9891
Absolute Sum of Squares	7.564e+006	1.739e+006	9.303e+006
Sy.x			476.3
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	23	21	
Outliers (excluded, Q=1.0%)	1	1	

Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 1/20/09
Protocol: CERI

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 1/20/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
811.000	623	264
811.000	623	226
811.000	660	208
1582.000	1094	340
1582.000	1075	302
1582.000	1075	302
2994.000	1792	472
2994.000	1887	415
2994.000	1887	415
5924.000	3321	698
5924.000	3283	623
5924.000	3377	641
12729.000	6151	1170
12729.000	6207	1189
12729.000	6283	1151
25263.000	9660	1868
25263.000	10094	2038
25263.000	10169	2132
50174.000	14452	3321
50174.000	14754	3585
50174.000	14188	3623
102006.000	18358	6377
102006.000	19037	6509
102006.000	18943	7000

Outliers

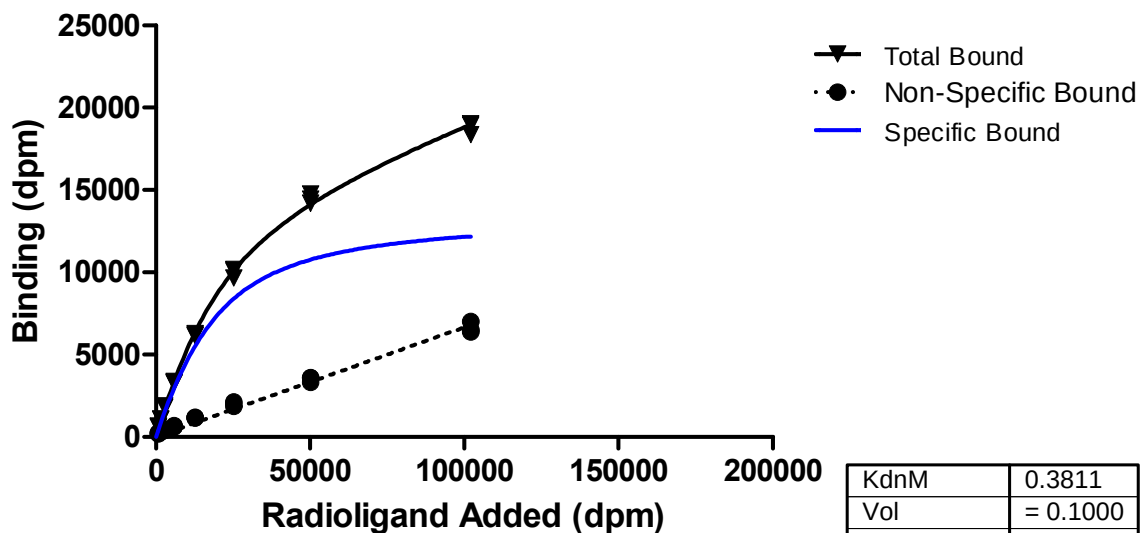
Total Added (dpm)	Total Bound (dpm)
25263.000	10169.000
50174.000	14452.000
50174.000	14754.000
102006.000	18358.000

Nonlinear Fit Results

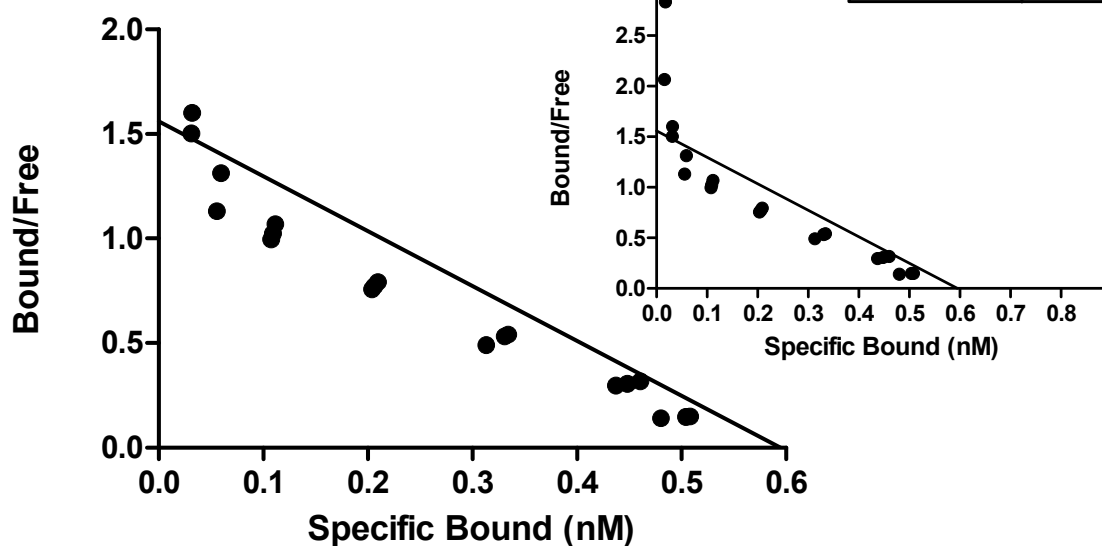
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdN	1.060	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxN	0.6435	(not used)	
NS	0.06350	0.06350	0.06350
background	215.8	215.8	215.8
kdM	1.060e-009	(not used)	
BmaxM	6.435e-010	(not used)	
Bmax/Kd	0.6073	(not used)	
Std. Error			
KdN	0.04844	(not used)	
BmaxN	0.01262	(not used)	
NS	0.001133	0.001133	0.001133
background	43.15	43.15	43.15
Bmax/Kd	0.01815	(not used)	
95% Confidence Intervals			
KdN	0.9616 to 1.157	(not used)	
BmaxN	0.6180 to 0.6690	(not used)	
NS	0.06121 to 0.06579	0.06121 to 0.06579	0.06121 to 0.06579
background	128.6 to 303.0	128.6 to 303.0	128.6 to 303.0
kdM	9.616e-010 to 1.157e-009	(not used)	
BmaxM	6.180e-010 to 6.690e-010	(not used)	
Bmax/Kd	0.5706 to 0.6440	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9987	0.9947	0.9984
Absolute Sum of Squares	884011	554144	1.438e+006
Sy.x			189.6
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	20	24	
Outliers (excluded, Q=1.0%)	4	0	

Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 1/20/09
Protocol: CERI

One Site - Total+NSB account for ligand depletion



Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 1, Run Date: 1/20/09
Protocol: CERI

Data

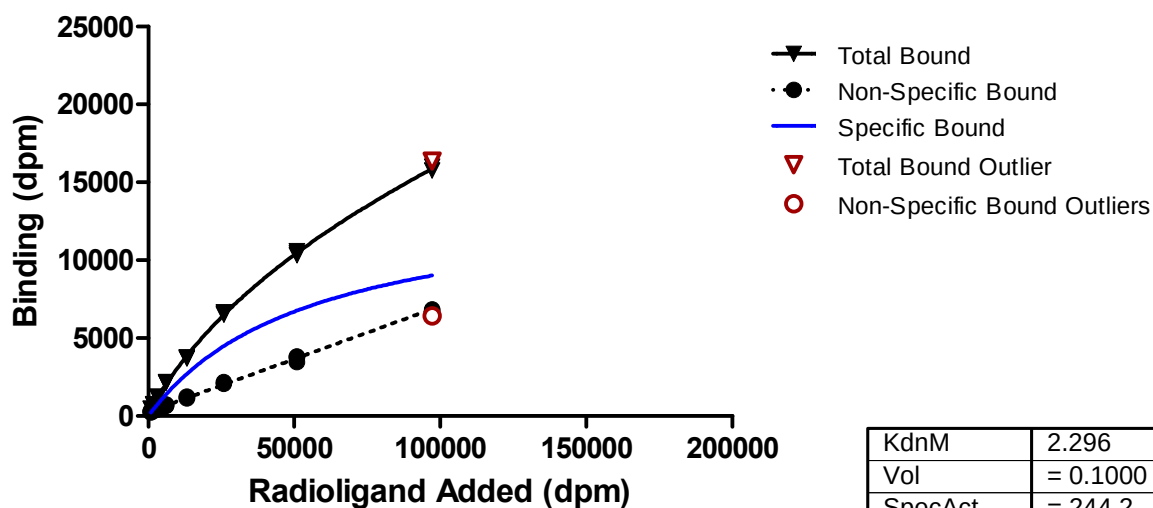
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
811.000	623	264
811.000	623	226
811.000	660	208
1582.000	1094	340
1582.000	1075	302
1582.000	1075	302
2994.000	1792	472
2994.000	1887	415
2994.000	1887	415
5924.000	3321	698
5924.000	3283	623
5924.000	3377	641
12729.000	6151	1170
12729.000	6207	1189
12729.000	6283	1151
25263.000	9660	1868
25263.000	10094	2038
25263.000	10169	2132
50174.000	14452	3321
50174.000	14754	3585
50174.000	14188	3623
102006.000	18358	6377
102006.000	19037	6509
102006.000	18943	7000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.3811	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.5945	(not used)	
NS	0.07135	0.07135	0.07135
BmaxM	5.945e-010	(not used)	
Bmax/Kd	1.560	(not used)	
Std. Error			
KdnM	0.02390	(not used)	
BmaxnM	0.01069	(not used)	
NS	0.001443	0.001443	0.001443
Bmax/Kd	0.07664	(not used)	
95% Confidence Intervals			
KdnM	0.3329 to 0.4292	(not used)	
BmaxnM	0.5730 to 0.6161	(not used)	
NS	0.06844 to 0.07426	0.06844 to 0.07426	0.06844 to 0.07426
BmaxM	5.730e-010 to 6.161e-010	(not used)	
Bmax/Kd	1.406 to 1.715	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9986	0.9835	0.9978
Absolute Sum of Squares	1.314e+006	1.713e+006	3.027e+006
Sy.x			259.4
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 1/27/09
Protocol: CERI

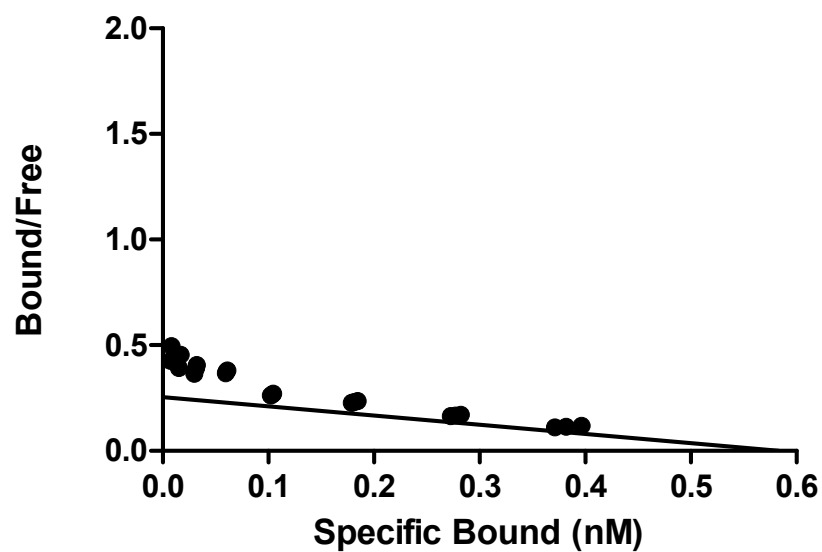
One Site - Total+NSB No Adj for ligand depletion



KdnM	2.296
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.5827

Std. Error	
KdnM	0.08925
BmaxnM	0.01248

Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 1/27/09
Protocol: CER1

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
874.000	455	317
874.000	455	277
874.000	475	238
1653.000	713	376
1653.000	713	337
1653.000	752	317
3184.000	1247	495
3184.000	1188	455
3184.000	1227	435
6094.000	2158	732
6094.000	2138	673
6094.000	2177	653
13183.000	3741	1128
13183.000	3702	1247
13183.000	3761	1247
25783.000	6572	2078
25783.000	6651	2177
25783.000	6512	2177
50830.000	10333	3464
50830.000	10570	3820
50830.000	10452	3761
97189.000	15757	6433
97189.000	16370	6849
97189.000	16014	6790

Outliers

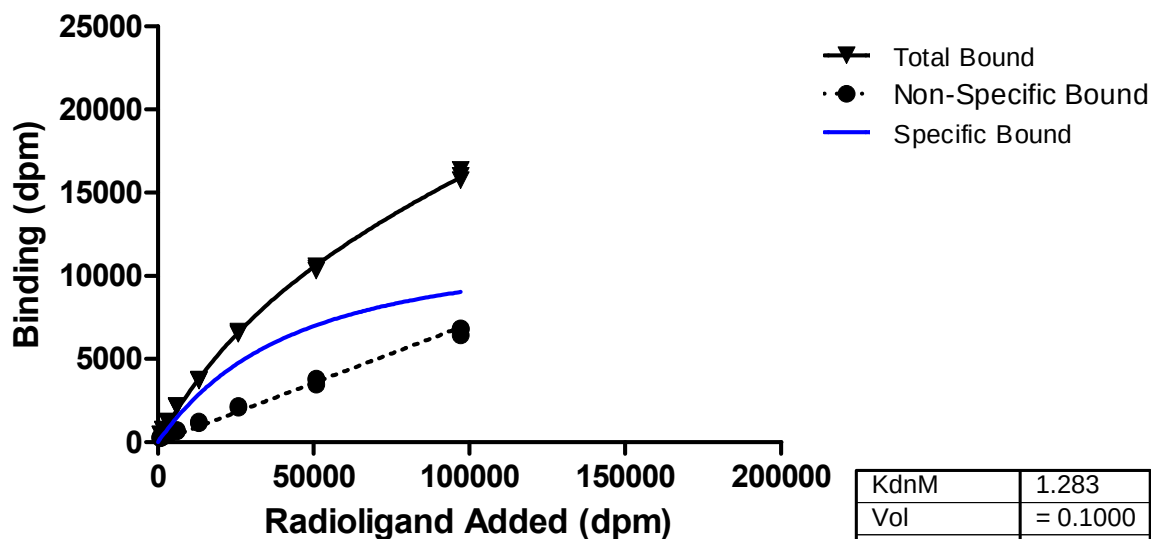
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
97189.000	16370.000	
97189.000		6433.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdM	2.296	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.5827	(not used)	
NS	0.06801	0.06801	0.06801
background	253.2	253.2	253.2
kM	2.296e-009	(not used)	
BmaxM	5.827e-010	(not used)	
Bmax/Kd	0.2537	(not used)	
Std. Error			
KdM	0.08925	(not used)	
BmaxM	0.01248	(not used)	
NS	0.0006613	0.0006613	0.0006613
background	20.84	20.84	20.84
Bmax/Kd	0.004992	(not used)	
95% Confidence Intervals			
KdM	2.116 to 2.477	(not used)	
BmaxM	0.5575 to 0.6079	(not used)	
NS	0.06667 to 0.06934	0.06667 to 0.06934	0.06667 to 0.06934
background	211.1 to 295.2	211.1 to 295.2	211.1 to 295.2
kM	2.116e-009 to 2.477e-009	(not used)	
BmaxM	5.575e-010 to 6.079e-010	(not used)	
Bmax/Kd	0.2437 to 0.2638	(not used)	
Goodness of Fit			
Degrees of Freedom			42
R square	0.9996	0.9979	0.9995
Absolute Sum of Squares	197036	179858	376894
Sy.x			94.73
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	23	23	
Outliers (excluded, Q=1.0%)	1	1	

Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 1/27/09
Protocol: CERI

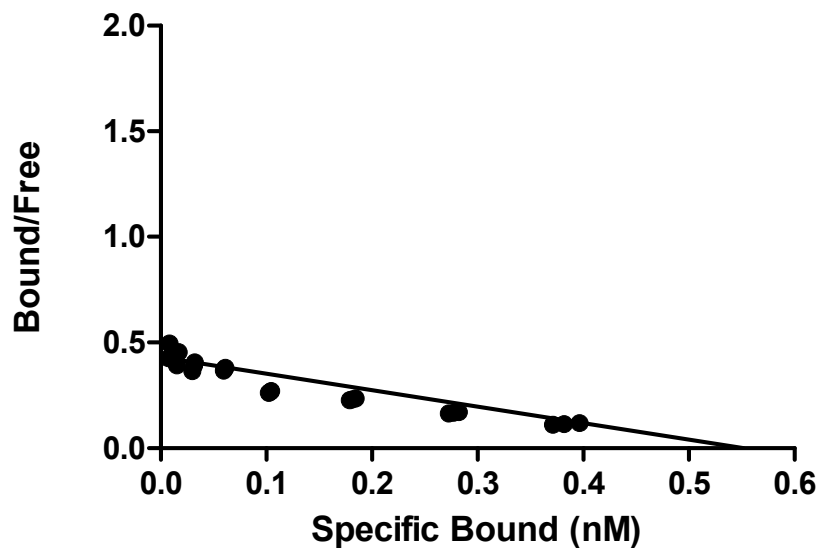
One Site - Total+NSB account for ligand depletion



KdnM	1.283
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.5516

Std. Error	
KdnM	0.09812
BmaxnM	0.01930

Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 2, Run Date: 1/27/09
Protocol: CERI

Data

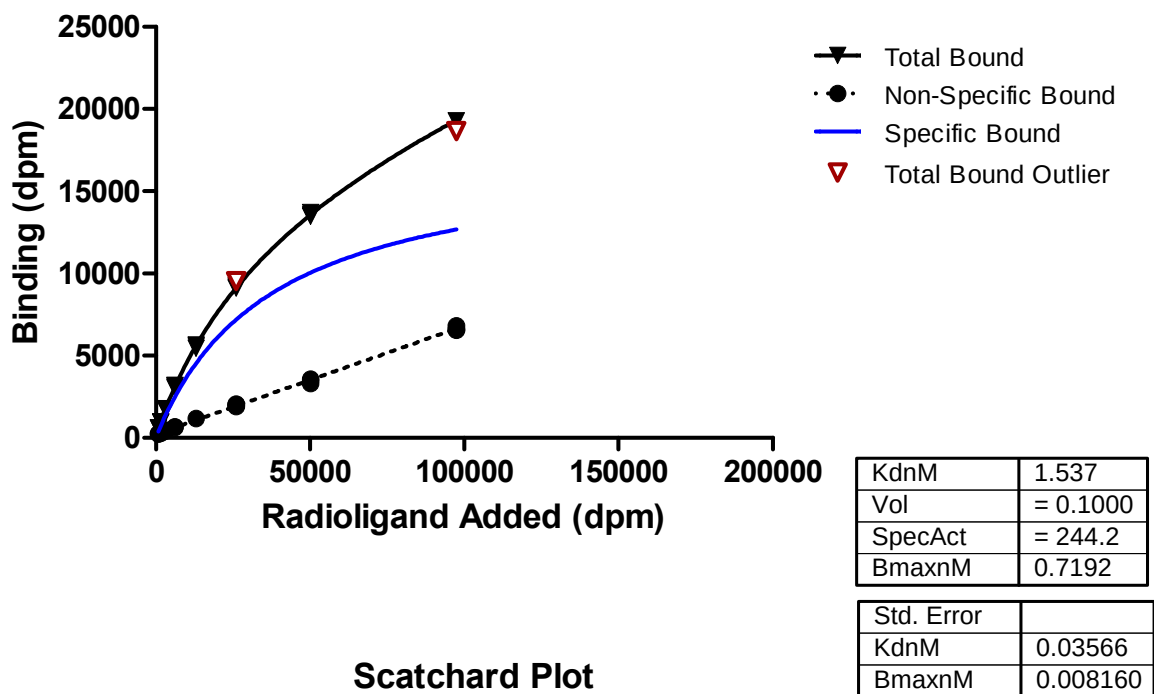
Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
874.000	455	317
874.000	455	277
874.000	475	238
1653.000	713	376
1653.000	713	337
1653.000	752	317
3184.000	1247	495
3184.000	1188	455
3184.000	1227	435
6094.000	2158	732
6094.000	2138	673
6094.000	2177	653
13183.000	3741	1128
13183.000	3702	1247
13183.000	3761	1247
25783.000	6572	2078
25783.000	6651	2177
25783.000	6512	2177
50830.000	10333	3464
50830.000	10570	3820
50830.000	10452	3761
97189.000	15757	6433
97189.000	16370	6849
97189.000	16014	6790

Nonlinear Fit Results

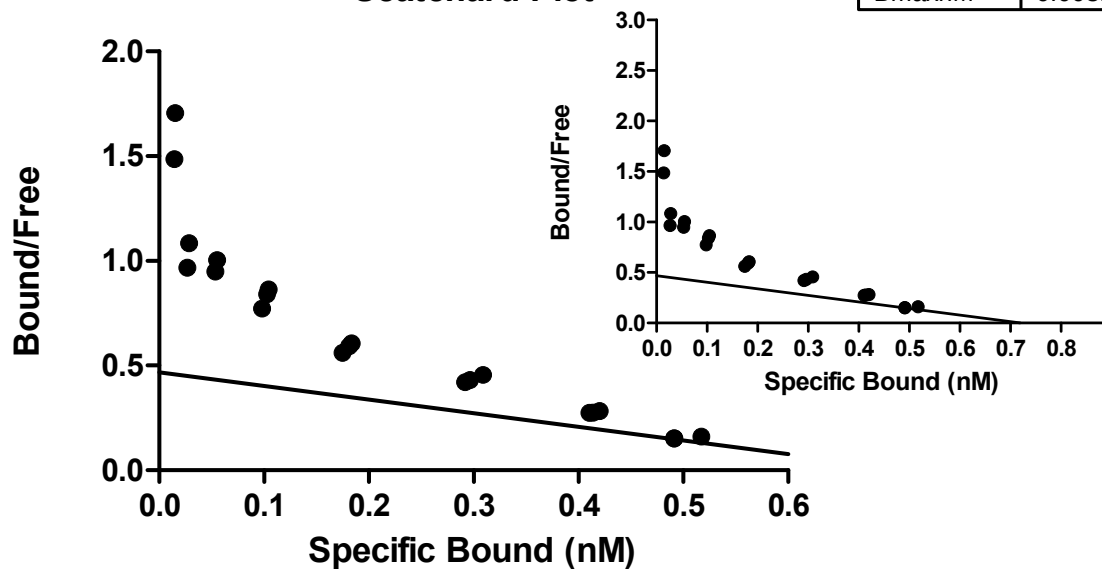
	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	1.283	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.5516	(not used)	
NS	0.07646	0.07646	0.07646
BmaxM	5.516e-010	(not used)	
Bmax/Kd	0.4300	(not used)	
Std. Error			
KdnM	0.09812	(not used)	
BmaxnM	0.01930	(not used)	
NS	0.001355	0.001355	0.001355
Bmax/Kd	0.02007	(not used)	
95% Confidence Intervals			
KdnM	1.085 to 1.481	(not used)	
BmaxnM	0.5127 to 0.5905	(not used)	
NS	0.07373 to 0.07919	0.07373 to 0.07919	0.07373 to 0.07919
BmaxM	5.127e-010 to 5.905e-010	(not used)	
Bmax/Kd	0.3895 to 0.4704	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9986	0.9857	0.9973
Absolute Sum of Squares	881431	1.515e+006	2.397e+006
Sy.x			230.8
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 1/28/09
Protocol: CERI

One Site - Total+NSB No Adj for ligand depletion



Scatchard Plot



Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 1/28/09
Protocol: CER1

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
830.000	594	268
830.000	613	230
830.000	613	230
1637.000	957	326
1637.000	996	287
1637.000	996	287
3121.000	1743	460
3121.000	1781	421
3121.000	1781	421
6150.000	3045	670
6150.000	3198	632
6150.000	3160	632
13054.000	5438	1168
13054.000	5592	1168
13054.000	5649	1168
26066.000	9536	1915
26066.000	9230	2011
26066.000	9115	2049
50117.000	13481	3294
50117.000	13711	3485
50117.000	13558	3581
97410.000	18652	6549
97410.000	19283	6607
97410.000	18652	6817

Outliers

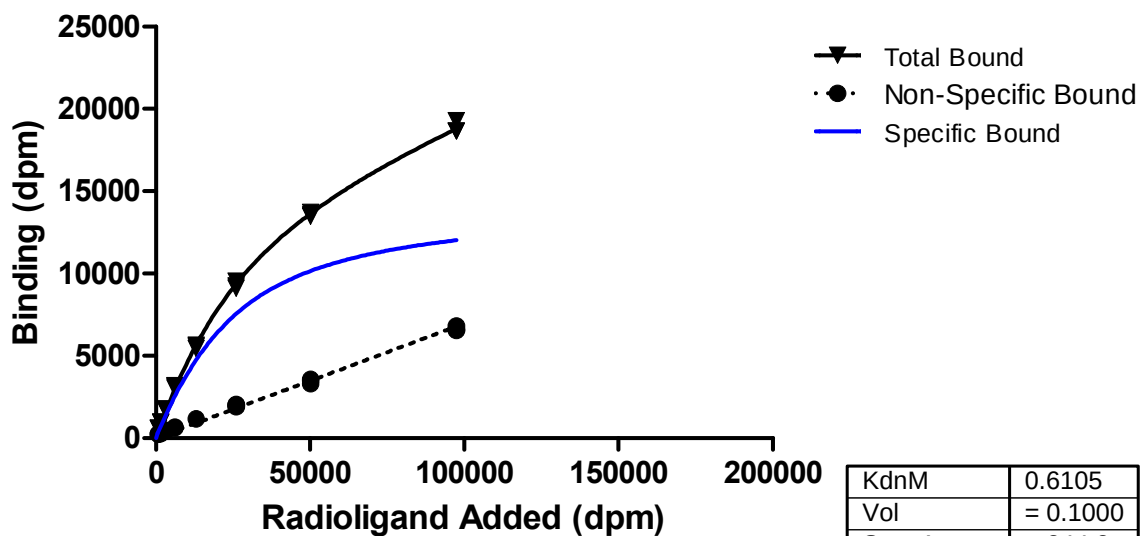
Total Added (dpm)	Total Bound (dpm)
26066.000	9536.000
97410.000	18652.000
97410.000	18652.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion [5]			
Best-fit values			
KdM	1.537	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxM	0.7192	(not used)	
NS	0.06606	0.06606	0.06606
background	212.4	212.4	212.4
kdM	1.537e-009	(not used)	
BmaxM	7.192e-010	(not used)	
Bmax/Kd	0.4680	(not used)	
Std. Error			
KdM	0.03566	(not used)	
BmaxM	0.008160	(not used)	
NS	0.0004957	0.0004957	0.0004957
background	18.03	18.03	18.03
Bmax/Kd	0.006141	(not used)	
95% Confidence Intervals			
KdM	1.465 to 1.609	(not used)	
BmaxM	0.7028 to 0.7357	(not used)	
NS	0.06506 to 0.06706	0.06506 to 0.06706	0.06506 to 0.06706
background	176.0 to 248.9	176.0 to 248.9	176.0 to 248.9
kdM	1.465e-009 to 1.609e-009	(not used)	
BmaxM	7.028e-010 to 7.357e-010	(not used)	
Bmax/Kd	0.4556 to 0.4804	(not used)	
Goodness of Fit			
Degrees of Freedom			41
R square	0.9998	0.9985	0.9997
Absolute Sum of Squares	111266	152634	263900
Sy.x			80.23
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	21	24	
Outliers (excluded, Q=1.0%)	3	0	

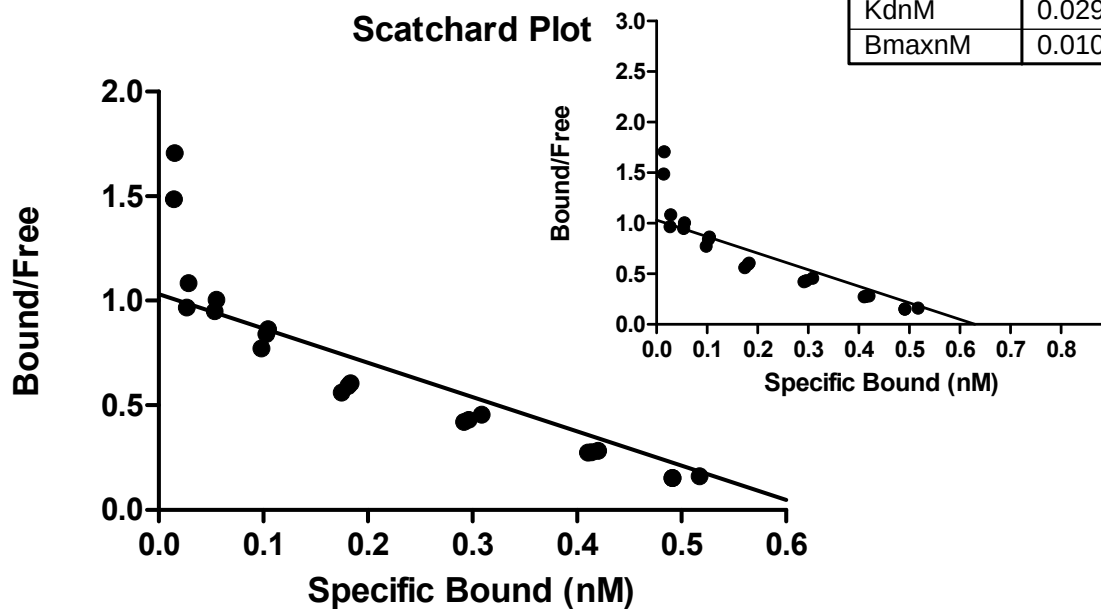
Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 1/28/09
Protocol: CERI

One Site - Total+NSB account for ligand depletion



KdnM	0.6105
Vol	= 0.1000
SpecAct	= 244.2
BmaxnM	0.6295

Std. Error	
KdnM	0.02951
BmaxnM	0.01056



Laboratory: Alexius Freyberger, Run ID: 3, Run Date: 1/28/09
Protocol: CERI

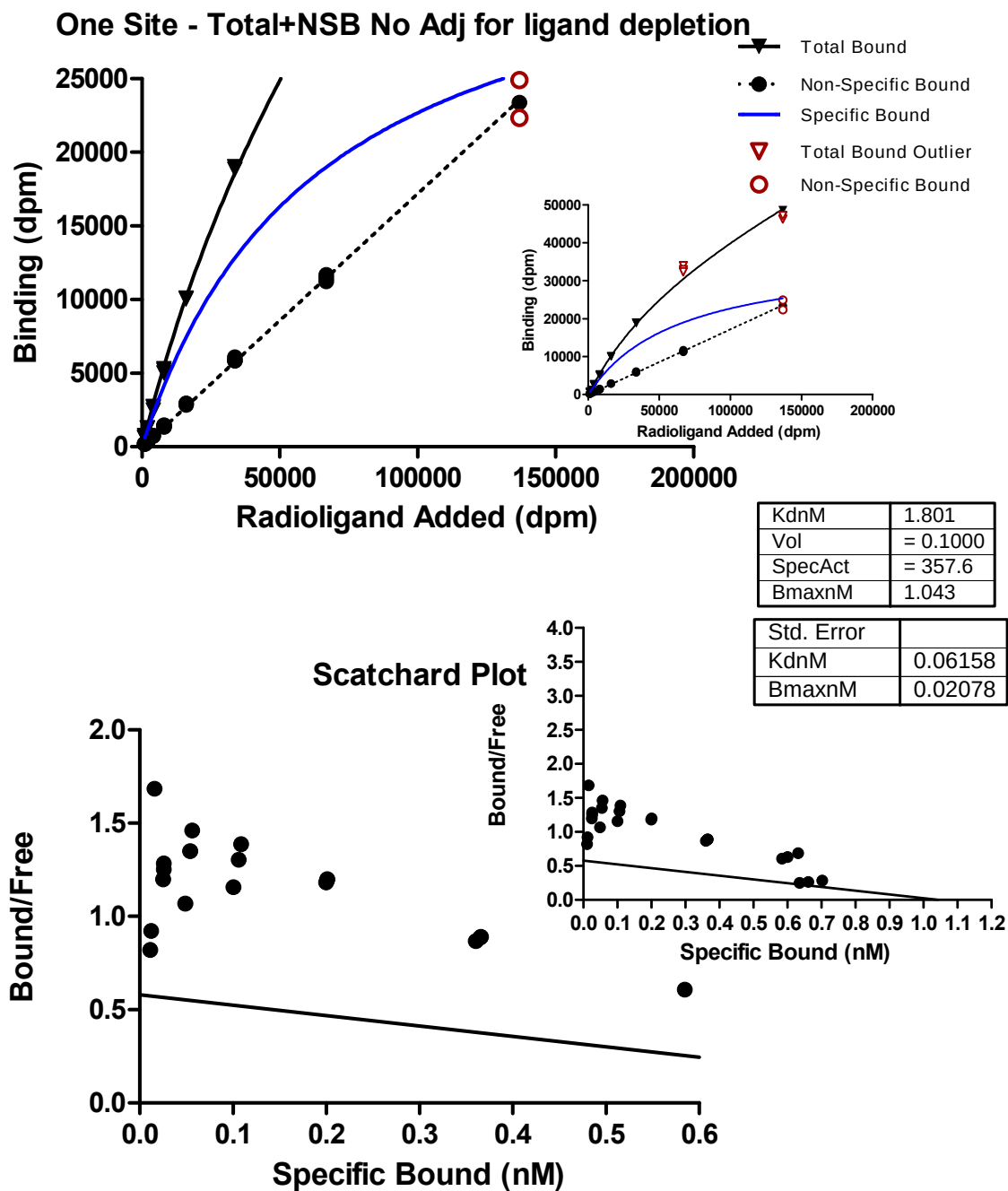
Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
830.000	594	268
830.000	613	230
830.000	613	230
1637.000	957	326
1637.000	996	287
1637.000	996	287
3121.000	1743	460
3121.000	1781	421
3121.000	1781	421
6150.000	3045	670
6150.000	3198	632
6150.000	3160	632
13054.000	5438	1168
13054.000	5592	1168
13054.000	5649	1168
26066.000	9536	1915
26066.000	9230	2011
26066.000	9115	2049
50117.000	13481	3294
50117.000	13711	3485
50117.000	13558	3581
97410.000	18652	6549
97410.000	19283	6607
97410.000	18652	6817

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.6105	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 244.2	(not used)	
BmaxnM	0.6295	(not used)	
NS	0.07474	0.07474	0.07474
BmaxM	6.295e-010	(not used)	
Bmax/Kd	1.031	(not used)	
Std. Error			
KdnM	0.02951	(not used)	
BmaxnM	0.01056	(not used)	
NS	0.001164	0.001164	0.001164
Bmax/Kd	0.03601	(not used)	
95% Confidence Intervals			
KdnM	0.5511 to 0.6700	(not used)	
BmaxnM	0.6082 to 0.6507	(not used)	
NS	0.07240 to 0.07709	0.07240 to 0.07709	0.07240 to 0.07709
BmaxM	6.082e-010 to 6.507e-010	(not used)	
Bmax/Kd	0.9584 to 1.104	(not used)	
Goodness of Fit			
Degrees of Freedom			45
R square	0.9991	0.9911	0.9986
Absolute Sum of Squares	865475	927985	1.793e+006
Sy.x			199.6
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 244.2	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	24	24	
Outliers (excluded, Q=1.0%)	0	0	

Laboratory: JapanCERI, Run ID: n-1, Run Date: 12/14/09
Protocol: CERI



Laboratory: JapanCERI, Run ID: n-1, Run Date: 12/14/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1099.000	608	190
1099.000	634	218
1099.000	766	206
2014.000	1262	376
2014.000	1280	346
2014.000	1290	360
4119.000	2486	750
4119.000	2746	730
4119.000	2682	742
8111.000	5006	1470
8111.000	5204	1418
8111.000	5306	1350
16087.000	10086	2852
16087.000	10092	2938
16087.000	10048	2920
33699.000	19020	5874
33699.000	18990	6096
33699.000	18834	5840
66789.000	34030	11232
66789.000	32908	11442
66789.000	32354	11680
136866.000	46274	22340
136866.000	47218	23392
136866.000	48666	24906

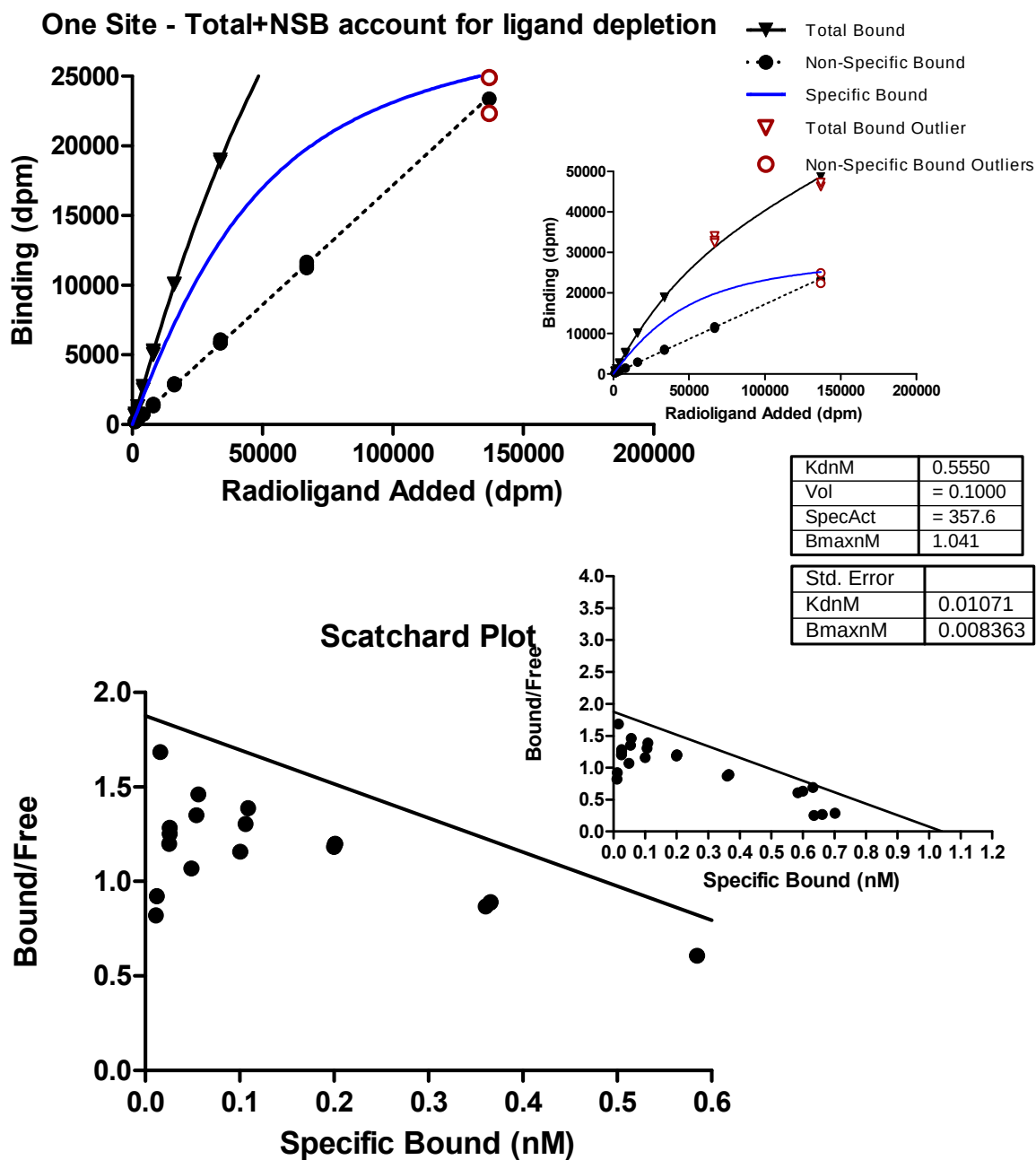
Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
66789.000	34030.000	
66789.000	32908.000	
66789.000	32354.000	
136866.000	46274.000	
136866.000	47218.000	
136866.000		22340.000
136866.000		24906.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion			
Best-fit values			
KdM	1.801	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 357.6	(not used)	
BmaxM	1.043	(not used)	
NS	0.1724	0.1724	0.1724
background	-57.15	-57.15	-57.15
kM	1.801e-009	(not used)	
BmaxM	1.043e-009	(not used)	
Bmax/Kd	0.5792	(not used)	
Std. Error			
KdM	0.06158	(not used)	
BmaxM	0.02078	(not used)	
NS	0.001339	0.001339	0.001339
background	48.35	48.35	48.35
Bmax/Kd	0.01002	(not used)	
95% Confidence Intervals			
KdM	1.676 to 1.926	(not used)	
BmaxM	1.001 to 1.085	(not used)	
NS	0.1697 to 0.1751	0.1697 to 0.1751	0.1697 to 0.1751
background	-155.2 to 40.86	-155.2 to 40.86	-155.2 to 40.86
kM	1.676e-009 to 1.926e-009	(not used)	
BmaxM	1.001e-009 to 1.085e-009	(not used)	
Bmax/Kd	0.5589 to 0.5995	(not used)	
Goodness of Fit			
Degrees of Freedom			37
R square	0.9995	0.9994	0.9995
Absolute Sum of Squares	1.275e+006	449229	1.724e+006
Sy.x			215.9
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 357.6	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	19	22	
Outliers (excluded, Q=1.0%)	5	2	

Laboratory: JapanCERI, Run ID: 1, Run Date: 12/14/2009
Protocol: CERI



Laboratory: JapanCERI, Run ID: 1, Run Date: 12/14/2009
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1099.000	608	190
1099.000	634	218
1099.000	766	206
2014.000	1262	376
2014.000	1280	346
2014.000	1290	360
4119.000	2486	750
4119.000	2746	730
4119.000	2682	742
8111.000	5006	1470
8111.000	5204	1418
8111.000	5306	1350
16087.000	10086	2852
16087.000	10092	2938
16087.000	10048	2920
33699.000	19020	5874
33699.000	18990	6096
33699.000	18834	5840
66789.000	34030	11232
66789.000	32908	11442
66789.000	32354	11680
136866.000	46274	22340
136866.000	47218	23392
136866.000	48666	24906

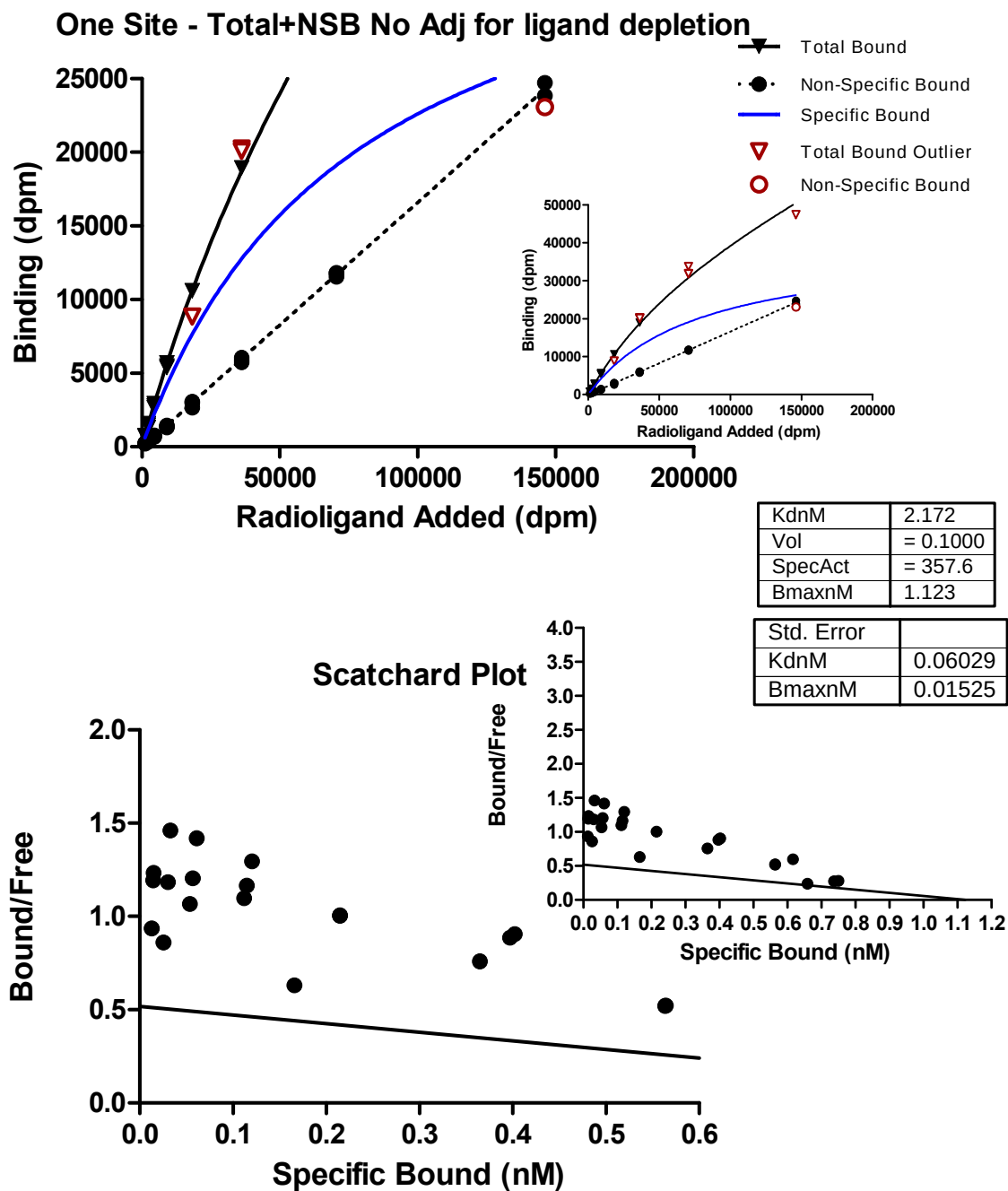
Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
66789.000	34030.000	
66789.000	32908.000	
66789.000	32354.000	
136866.000	46274.000	
136866.000	47218.000	
136866.000		22340.000
136866.000		24906.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.5550	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 357.6	(not used)	
BmaxnM	1.041	(not used)	
NS	0.2075	0.2075	0.2075
BmaxM	1.041e-009	(not used)	
Bmax/Kd	1.875	(not used)	
Std. Error			
KdnM	0.01071	(not used)	
BmaxnM	0.008363	(not used)	
NS	0.0008840	0.0008840	0.0008840
Bmax/Kd	0.02502	(not used)	
95% Confidence Intervals			
KdnM	0.5333 to 0.5767	(not used)	
BmaxnM	1.024 to 1.058	(not used)	
NS	0.2057 to 0.2093	0.2057 to 0.2093	0.2057 to 0.2093
BmaxM	1.024e-009 to 1.058e-009	(not used)	
Bmax/Kd	1.825 to 1.926	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9999	0.9996	0.9998
Absolute Sum of Squares	214525	297094	511619
Sy.x			116.0
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 357.6	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	19	22	
Outliers (excluded, Q=1.0%)	5	2	

Laboratory: JapanCERI, Run ID: n-2, Run Date: 12/15/09
Protocol: CERI



Laboratory: JapanCERI, Run ID: n-2, Run Date: 12/15/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1188.000	754	246
1188.000	696	220
1188.000	762	242
2376.000	1468	428
2376.000	1310	410
2376.000	1570	340
4464.000	2774	754
4464.000	2924	780
4464.000	2662	684
9024.000	5382	1452
9024.000	5498	1324
9024.000	5698	1388
18242.000	8844	2658
18242.000	10594	2998
18242.000	10598	3080
36127.000	18942	5742
36127.000	20266	5878
36127.000	20092	6050
70519.000	31892	11546
70519.000	31862	11822
70519.000	33756	11778
146109.000	50250	24728
146109.000	47444	23078
146109.000	50710	23848

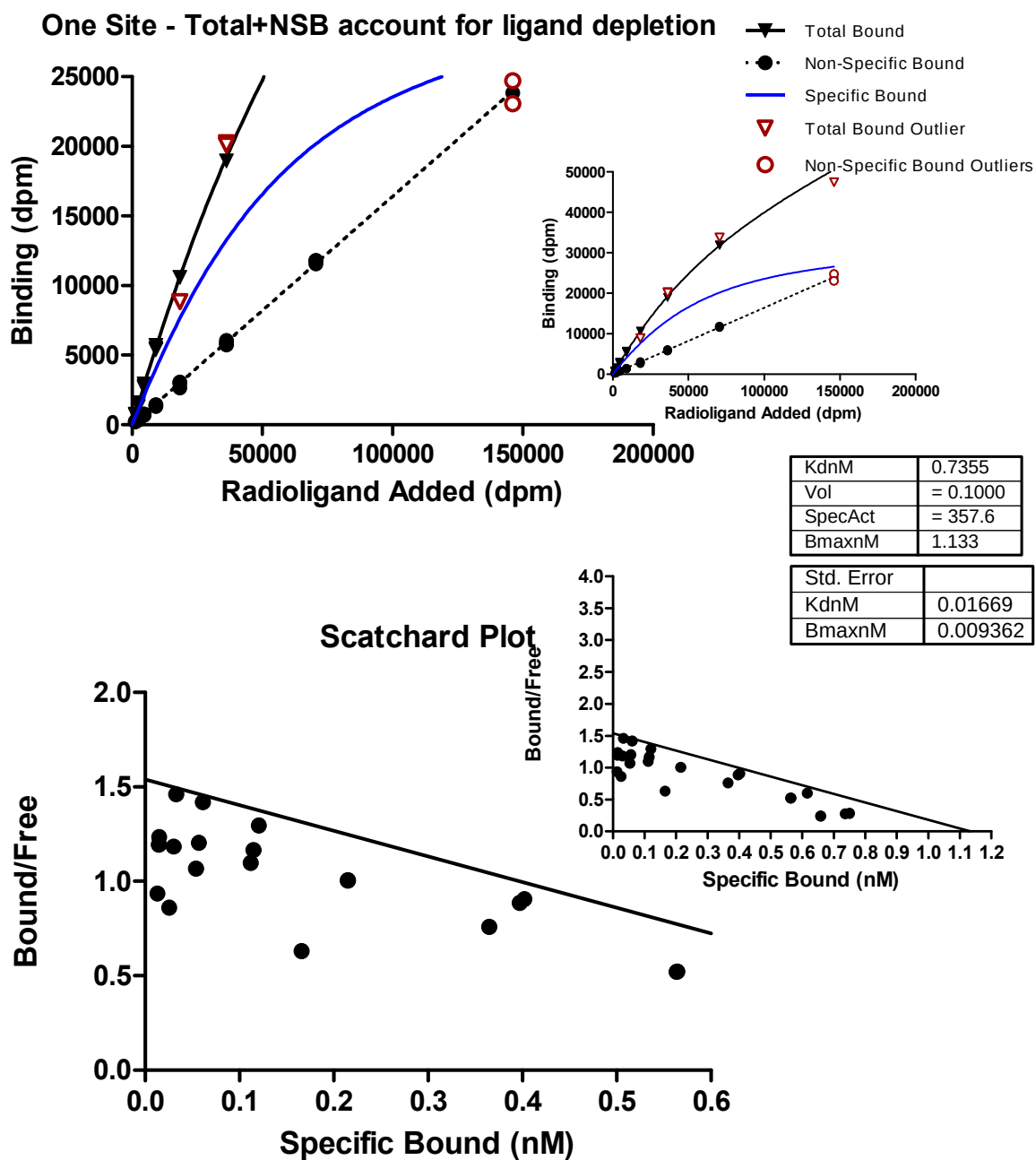
Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
18242.000	8844.000	
36127.000	20266.000	
36127.000	20092.000	
70519.000	31892.000	
70519.000	31862.000	
70519.000	33756.000	
146109.000	47444.000	
146109.000		23078.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdM	2.172	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 357.6	(not used)	
BmaxM	1.123	(not used)	
NS	0.1667	0.1667	0.1667
background	-75.04	-75.04	-75.04
kDM	2.172e-009	(not used)	
BmaxM	1.123e-009	(not used)	
Bmax/Kd	0.5172	(not used)	
Std. Error			
KdM	0.06029	(not used)	
BmaxM	0.01525	(not used)	
NS	0.0008027	0.0008027	0.0008027
background	37.68	37.68	37.68
Bmax/Kd	0.008333	(not used)	
95% Confidence Intervals			
KdM	2.049 to 2.294	(not used)	
BmaxM	1.092 to 1.154	(not used)	
NS	0.1651 to 0.1683	0.1651 to 0.1683	0.1651 to 0.1683
background	-151.5 to 1.435	-151.5 to 1.435	-151.5 to 1.435
kDM	2.049e-009 to 2.294e-009	(not used)	
BmaxM	1.092e-009 to 1.154e-009	(not used)	
Bmax/Kd	0.5003 to 0.5341	(not used)	
Goodness of Fit			
Degrees of Freedom			36
R square	0.9999	0.9994	0.9998
Absolute Sum of Squares	335643	692768	1.028e+006
Sy.x			169.0
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 357.6	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background is shared	background is shared	
Number of points			
Analyzed	17	23	
Outliers (excluded, Q=1.0%)	7	1	

Laboratory: JapanCERI, Run ID: 2, Run Date: 12/15/2009
Protocol: CERI



Laboratory: JapanCERI, Run ID: 2, Run Date: 12/15/2009
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1188.000	754	246
1188.000	696	220
1188.000	762	242
2376.000	1468	428
2376.000	1310	410
2376.000	1570	340
4464.000	2774	754
4464.000	2924	780
4464.000	2662	684
9024.000	5382	1452
9024.000	5498	1324
9024.000	5698	1388
18242.000	8844	2658
18242.000	10594	2998
18242.000	10598	3080
36127.000	18942	5742
36127.000	20266	5878
36127.000	20092	6050
70519.000	31892	11546
70519.000	31862	11822
70519.000	33756	11778
146109.000	50250	24728
146109.000	47444	23078
146109.000	50710	23848

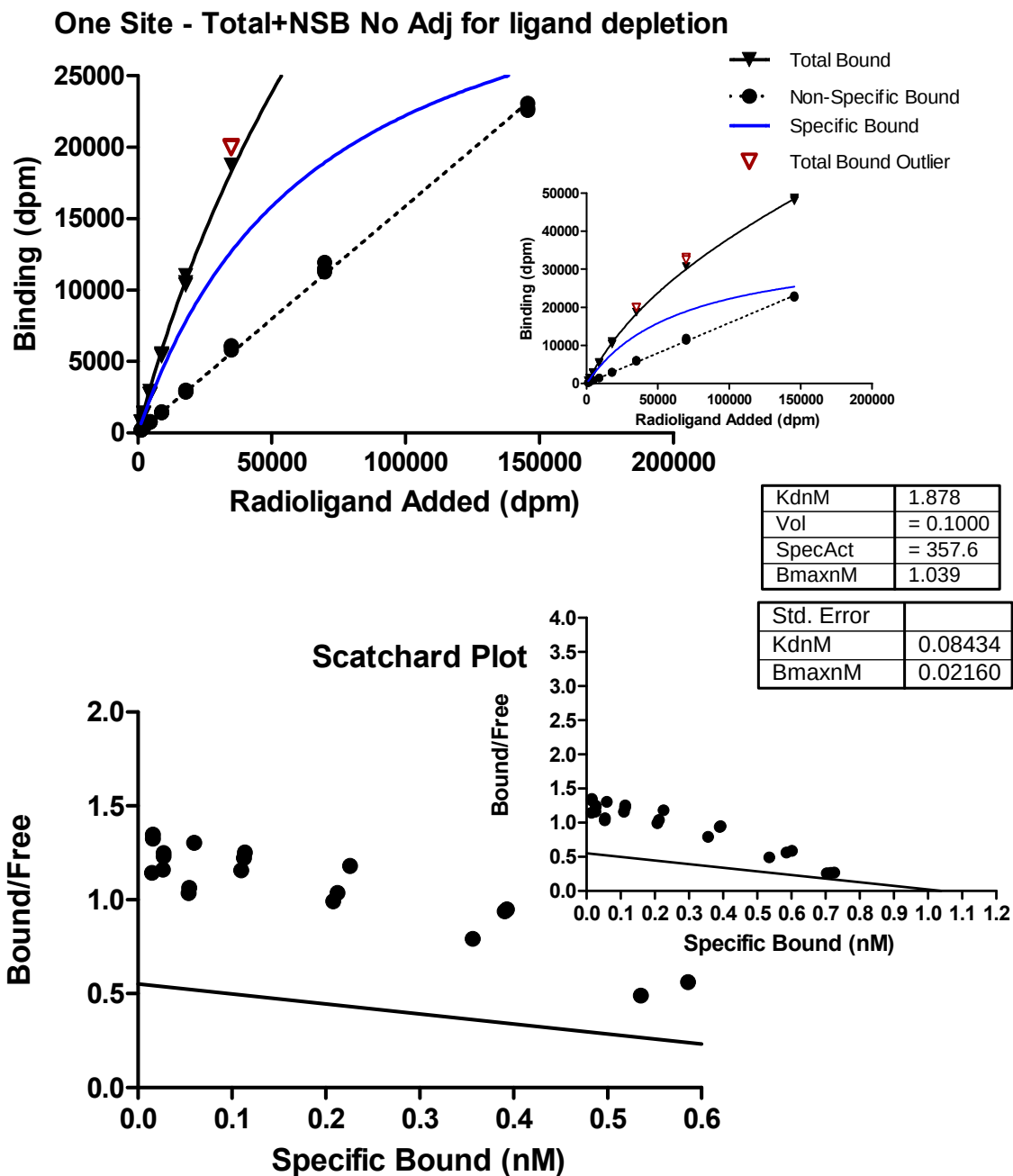
Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
18242.000	8844.000	
36127.000	20266.000	
36127.000	20092.000	
70519.000	33756.000	
146109.000	47444.000	
146109.000		24728.000
146109.000		23078.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.7355	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 357.6	(not used)	
BmaxnM	1.133	(not used)	
NS	0.1962	0.1962	0.1962
BmaxM	1.133e-009	(not used)	
Bmax/Kd	1.540	(not used)	
Std. Error			
KdnM	0.01669	(not used)	
BmaxnM	0.009362	(not used)	
NS	0.0009387	0.0009387	0.0009387
Bmax/Kd	0.02435	(not used)	
95% Confidence Intervals			
KdnM	0.7017 to 0.7693	(not used)	
BmaxnM	1.114 to 1.152	(not used)	
NS	0.1943 to 0.1981	0.1943 to 0.1981	0.1943 to 0.1981
BmaxM	1.114e-009 to 1.152e-009	(not used)	
Bmax/Kd	1.491 to 1.589	(not used)	
Goodness of Fit			
Degrees of Freedom			38
R square	0.9999	0.9995	0.9999
Absolute Sum of Squares	339761	343221	682982
Sy.x			134.1
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 357.6	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	19	22	
Outliers (excluded, Q=1.0%)	5	2	

Laboratory: JapanCERI, Run ID: n-3, Run Date: 12/16/09
Protocol: CERI



Laboratory: JapanCERI, Run ID: n-3, Run Date: 12/16/09
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1205.000	786	230
1205.000	782	226
1205.000	746	206
2158.000	1346	430
2158.000	1372	402
2158.000	1378	380
4553.000	2916	802
4553.000	2726	768
4553.000	2700	772
8782.000	5528	1448
8782.000	5386	1434
8782.000	5486	1482
17864.000	11020	2872
17864.000	10374	3000
17864.000	10538	2948
34833.000	20040	5806
34833.000	19960	6054
34833.000	18742	6110
69737.000	33102	11956
69737.000	30730	11518
69737.000	32534	11278
145513.000	48400	22586
145513.000	47960	22742
145513.000	48760	23078

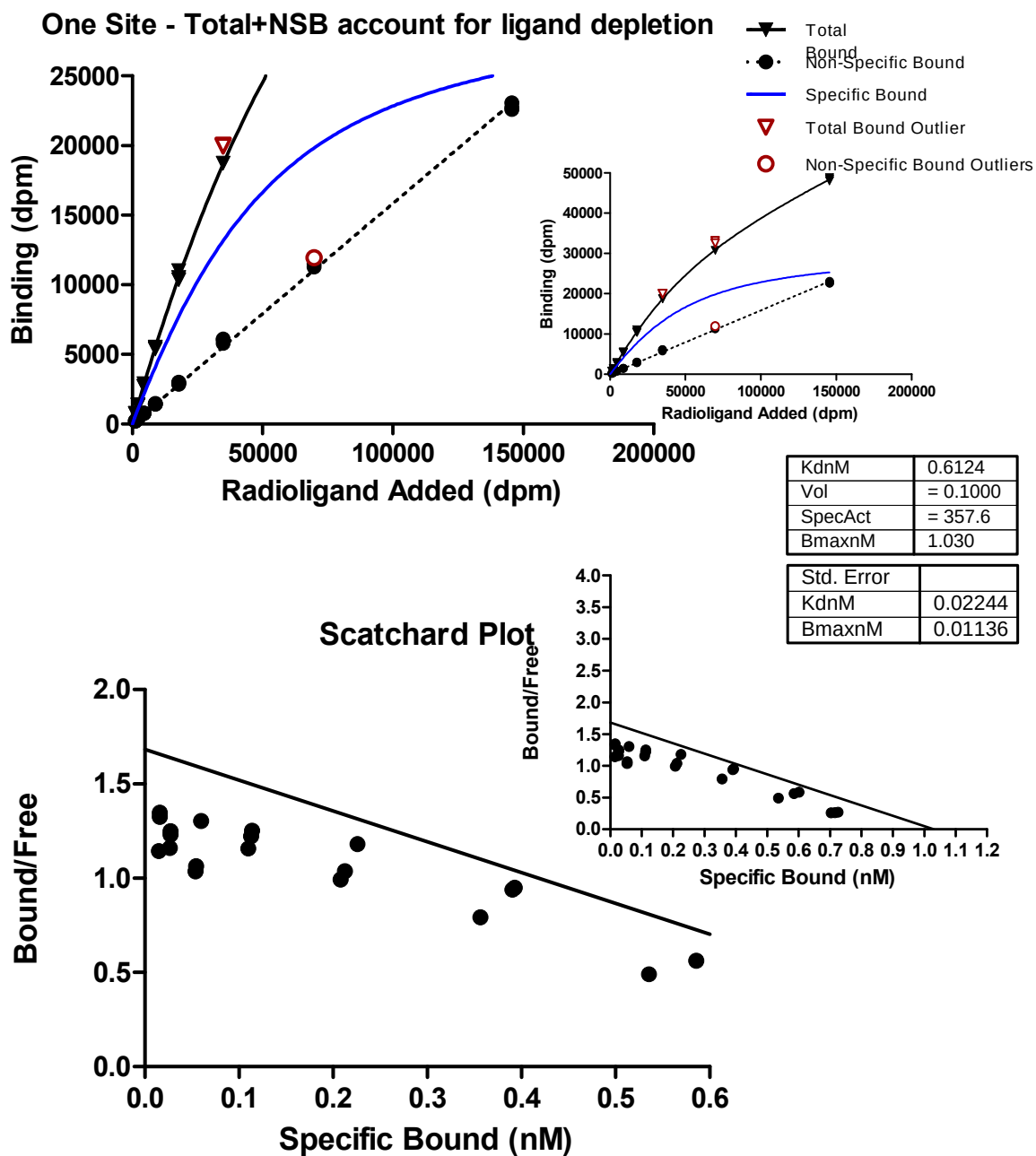
Outliers

Total Added (dpm)	Total Bound (dpm)
34833.000	20040.000
34833.000	19960.000
69737.000	33102.000
69737.000	32534.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One Site - total+NSB - no adjustment for ligand depletion	[5]		
Best-fit values			
KdN	1.878	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 357.6	(not used)	
BmaxN	1.039	(not used)	
NS	0.1585	0.1585	0.1585
background	44.75	44.75	44.75
kM	1.878e-009	(not used)	
BmaxM	1.039e-009	(not used)	
Bmax/Kd	0.5532	(not used)	
Std. Error			
KdN	0.08434	(not used)	
BmaxN	0.02160	(not used)	
NS	0.001330	0.001330	0.001330
background	70.29	70.29	70.29
Bmax/Kd	0.01497	(not used)	
95% Confidence Intervals			
KdN	1.708 to 2.049	(not used)	
BmaxN	0.9954 to 1.083	(not used)	
NS	0.1558 to 0.1612	0.1558 to 0.1612	0.1558 to 0.1612
background	0.0 to 186.8	0.0 to 186.8	0.0 to 186.8
kM	1.708e-009 to 2.049e-009	(not used)	
BmaxM	9.954e-010 to 1.083e-009	(not used)	
Bmax/Kd	0.5230 to 0.5835	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9996	0.9985	0.9994
Absolute Sum of Squares	2.106e+006	1.973e+006	4.079e+006
Sy.x			319.3
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 357.6	(not used)	
NS	NS > 0.0 and shared	NS > 0.0 and shared	
background	background > 0.0 and shared	background > 0.0 and shared	
Number of points			
Analyzed	20	24	
Outliers (excluded, Q=1.0%)	4	0	

Laboratory: JapanCERI, Run ID: 3, Run Date: 12/16/2009
Protocol: CERI



Laboratory: JapanCERI, Run ID: 3, Run Date: 12/16/2009
Protocol: CERI

Data

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
1205.000	786	230
1205.000	782	226
1205.000	746	206
2158.000	1346	430
2158.000	1372	402
2158.000	1378	380
4553.000	2916	802
4553.000	2726	768
4553.000	2700	772
8782.000	5528	1448
8782.000	5386	1434
8782.000	5486	1482
17864.000	11020	2872
17864.000	10374	3000
17864.000	10538	2948
34833.000	20040	5806
34833.000	19960	6054
34833.000	18742	6110
69737.000	33102	11956
69737.000	30730	11518
69737.000	32534	11278
145513.000	48400	22586
145513.000	47960	22742
145513.000	48760	23078

Outliers

Total Added (dpm)	Total Bound (dpm)	Non-Specific Bound (dpm)
34833.000	20040.000	
34833.000	19960.000	
69737.000	33102.000	
69737.000	32534.000	
69737.000		11956.000

Nonlinear Fit Results

	Total Bound (dpm)	Non-Specific Bound (dpm)	Global (shared)
One site -- Total, NSB accounting for ligand depletion(nM) [2]			
Best-fit values			
KdnM	0.6124	(not used)	
Vol	= 0.1000	(not used)	
SpecAct	= 357.6	(not used)	
BmaxnM	1.030	(not used)	
NS	0.1882	0.1882	0.1882
BmaxM	1.030e-009	(not used)	
Bmax/Kd	1.682	(not used)	
Std. Error			
KdnM	0.02244	(not used)	
BmaxnM	0.01136	(not used)	
NS	0.001146	0.001146	0.001146
Bmax/Kd	0.04697	(not used)	
95% Confidence Intervals			
KdnM	0.5670 to 0.6577	(not used)	
BmaxnM	1.007 to 1.053	(not used)	
NS	0.1859 to 0.1906	0.1859 to 0.1906	0.1859 to 0.1906
BmaxM	1.007e-009 to 1.053e-009	(not used)	
Bmax/Kd	1.587 to 1.777	(not used)	
Goodness of Fit			
Degrees of Freedom			40
R square	0.9999	0.9989	0.9997
Absolute Sum of Squares	672260	1.393e+006	2.066e+006
Sy.x			227.2
Constraints			
Vol	Vol = 0.1000	(not used)	
SpecAct	SpecAct = 357.6	(not used)	
NS	NS is shared	NS is shared	
Number of points			
Analyzed	20	23	
Outliers (excluded, Q=1.0%)	4	1	

**ANALYSIS OF COMPETITIVE BINDING DATA FROM SIX LABORATORIES AND
TWO PROTOCOLS FOR THE HUMAN RECOMBINANT ER (hER α)
BINDING ASSAY VALIDATION EFFORT**

DATA HANDLING AND STATISTICAL ANALYSIS METHODS AND RESULTS

Zhenxu J. Ma

DETAILED REPORT

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Executive Summary

The EPA has been conducting validation tests on two human recombinant estrogen receptor (hrER α) binding assays that utilize two hrER α proteins (Pan Vera-ER (PV-ER) and CERI-ER respectively). The two binding assay protocols used are the Freyberger-Wilson Assay (FWA) protocol and the Chemical Evaluation and Research Institute (CERI) protocol.

The hrER α binding assay interlaboratory validation study was conducted for the CERI protocol at five laboratories: University of Missouri (Dr. Wade Welshons, Study Director), CeeTox (Dr. Jeff Pregoner, Study Director), Lovelace Respiratory Research Institute (Dr. JeanClare Seagrave, Study Director), CERI-Japan (Dr. Yumi Akahori, Study Director), and Bayer HealthCare, Germany (Dr. Alexius Freyberger, Study Director). For the FWA protocol the validation study was conducted at six laboratories: the same five laboratories as the CERI protocol studies and the University of Konstanz (Dr. Daniel Dietrich, Study Director) (Table 0).

Competitive binding assay data on the estradiol (strong) standard, the norethynodrel (weak) standard, dibutylphthalate (negative), and the 23 principal test chemicals were developed at each of the laboratories. This report discusses the data handling procedures utilized and the data analysis methods and results for the competitive binding data for the estradiol and the norethynodrel standards and for the 23 principal test chemicals.

For each assay (CERI and FWA), the laboratories performed several subtasks. Some chemicals were tested as coded chemicals in some subtasks and uncoded chemicals in other subtasks. Each lab was asked to provide three runs for each chemical, with three replicates at each concentration within a run. Each test runs included the standards estradiol (strong binding chemical), norethynodrel (weak binding chemical), and dibutylphthalate (negative binding chemical) as uncoded standard chemicals.

The report provides a brief overview of the organization of the data and aspects of how the data were processed. It discusses how the data were transferred from the earlier versions of the data templates to the most recent uniform templates before being analyzed. It provides detailed descriptions of the competitive binding model fitting methods using PRISM. Tolerance interval approaches were developed for the performance criteria for the estradiol and norethynodrel standards and the relative binding affinity of norethynodrel relative to estradiol. Finally the report discusses the rules of combination used to assign binding classifications to the test chemicals, within laboratories and pooled across laboratories. The results of the tolerance interval determinations are displayed graphically for each assay protocol and each response curve parameter. The results of the classification analyses are presented for each test laboratory and combined across test laboratories. When combining classification results across laboratories both unweighted averages and weighted averages were used. The weights for each laboratory were proportional to the percentage of runs with acceptable E₂ and NE fits. The consensus classification results were insensitive to whether weighted or unweighted averages were used.

1.0 Introduction and Background

The EPA has been conducting validation tests on two human recombinant estrogen receptor (hrER α) binding assays that utilize two hrER α proteins (Pan Vera-ER (PV-ER) and CERI-ER respectively). The two binding assay protocols used are the Freyberger-Wilson Assay (FWA) protocol and the Chemicals Evaluation and Research Institute (CERI) protocol.

The hrER α binding assay interlaboratory validation study was conducted for the CERI protocol at five laboratories: University of Missouri (Dr. Wade Welshons, Study Director), CeeTox (Dr. Jeff Pregoner, Study Director), Lovelace Respiratory Research Institute (Dr. JeanClare Seagrave, Study Director), CERI-Japan (Dr. Yumi Akahori, Study Director), and Bayer HealthCare, Germany (Dr. Alexius Freyberger, Study Director). For the FWA protocol the validation study was conducted at six laboratories: the same five laboratories as the CERI protocol studies and the University of Konstanz (Dr. Daniel Dietrich, Study Director) (Table 0).

Table 0. Laboratories in hrER Competitive Binding Assay Study

Laboratory					
University of Missouri	CeeTox	Lovelace	CERI - Japan	Bayer HealthCare, Germany	University of Konstanz
FWA	FWA	FWA	FWA	FWA	FWA
CERI	CERI	CERI	CERI	CERI	

Competitive binding assay data on the estradiol (strong) standard, the norethynodrel (weak) standard, dibutylphthalate (negative), and the 23 principal test chemicals were developed at each of the laboratories (Table 1 and Table A-1). Prior to testing the 23 chemicals, saturation binding assays were performed. The saturation assay analysis is documented in a separate report (Battelle, 2011). This report discusses the data handling procedures utilized and the data analysis methods and results for the competitive binding data for the estradiol and the norethynodrel standards and for the 23 principal test chemicals.

For each assay (CERI and FWA), the laboratories performed several subtasks. In Subtask 1, only the standards estradiol, norethynodrel, and dibutylphthalate were run. In Subtask 2, the standards plus nine uncoded test chemicals were run. In Subtask 3, the standards plus 14 coded chemicals were run. In Subtask 4, the standards plus 16 coded chemicals were run. (The 16 coded “test chemicals” consisted of 3 negatives and 4 weak positives, each submitted twice, with one chemical submitted an additional two times.) One laboratory carried out additional runs under a trouble-shooting subtask labeled Subtask 12. The three standard chemicals were also tested as coded chemicals in Subtask 3 and Subtask 12. If a chemical was tested both coded and uncoded, then the coded chemical were sometime labeled with a “-b” in the report to distinguish the blinded chemicals. When the standard chemicals were tested as the coded chemicals, they were treated as test chemicals and labeled with a “-TC”.

Table 1. Lists of Chemical Names and Their Abbreviations^{a,b}

	Chemical	Abbreviation
Standard Strong Chemical	17 β -Estradiol	E2
Standard Weak Chemical	Norethynodrel	Nethdrel
Standard Negative Chemical	Dibutylphthalate	DBP
Test Chemicals	Butylparaben	ButylPar
	Corticosterone	Cort
	Equol	Equol
	Hexestrol	Hexestrol
	Nonylphenol	NPhenol
	DDT	DDT
	DES	DES
	17 α -Ethinylestradiol	EE2
	Genistein	Gen
	Zearalenone	Zear
	Tamoxifen	Tamox
	5 α -Dihydrotestosterone	DHT
	Bisphenol A	BPA
	4-n-heptylphenol	Heptylphenol
	Kepone	Kepone
	Benz(a)anthracene	BaA
	Enterolactone	ELactone
	Progesterone	Progesterone
	Octyltriethoxysilane	OTES
	Atrazine	Atr
	Norethindrone	Nethdrone
	Dexamethasone	Dex
	HPTE	HPTE

- Some test chemicals were coded and tested blinded. Multiple copies of the same chemicals were given and blinded for same chemicals (BPA-1, BPA-2, Cort-1, Cort-2, Dex-1, Dex-2, Gen-1, Gen-2, HPTE-1, HPTE-2, Nethdrone-1, Nethdrone-2, Nethdrone-3, Nethdrone-4, OTES-1, OTES-2)
- The three standard chemicals were also coded and tested blindly and were treated as the test chemicals.

Although chemicals were coded in certain subtasks, molecular weights were provided on the vials so that specific molar concentrations could be prepared.

Each lab was asked to provide three runs for each chemical, with three replicates at each concentration within a run. In some cases, laboratories recognized that the data for a run was unacceptable and so the run was repeated. Data for both the “good” runs and the “bad” runs were examined in this analysis, although some of the “bad” runs were not received in time for analysis.

The report is organized as follows: Section 2 provides a brief overview of the organization of the data and aspects of how the data were processed. It discusses how the data were transferred from the earlier versions of the data templates to the most recent uniform templates before being analyzed and how the data were organized in the data template. Section 3 discusses the PRISM four parameter competitive binding model fitting methods. The homogeneous and heterogeneous models with and without adjustment for ligand depletion are discussed. Section 4 discusses the EPA review of the model fits to the estradiol and norethynodrel data and summarizes the EPA designation of acceptable and unacceptable runs. The EPA designation was used for subsequent analyses based on the model fits. Section 5 discusses the development of performance criteria for the estradiol and norethynodrel standards and the relative binding affinity of norethynodrel relative to estradiol based on the construction of tolerance bounds and presents tabular and graphical summaries of the application of the tolerance bound procedures. Section 6 discusses the rules of combination used to assign binding classifications to the test chemicals, within laboratories and pooled across laboratories, Section 7 discusses an alternative approach to determine “good” and “bad” runs, used in the binding/interaction classification additional aspects of the analysis. Section 8 contains references.

2.0 Data Management

Competitive binding data analyses were carried out by each of the six laboratories for the estradiol (strong) positive standard (E_2), the norethynodrel (weak) positive standard (NE), the dibutylphthalate negative standard (DBP) and 23 test chemicals. These analyses were conducted in subtasks 1, 2, 3, 4 and 12. Not all laboratories carried out all subtasks (see Tables 2 through 5).

Each laboratory organized its testing into test runs. Each test run consisted of graded concentrations of the estradiol, norethynodrel, and dibutylphthalate standards and, after proficiency was demonstrated in running the standards alone, one or multiple test chemicals. Tables 2 through 5 summarize the numbers of test runs for each chemical for each laboratory in total as well as by subtask.

Table 2¹. Number of Test Runs in Which the Standard and Test Chemicals were Run with the CERI Protocol

Chemical	CeeTox	Lovelace	Missouri	Freyberger	JapanCERI
E ₂	15	40	31	16	16
NE	15	38	31	16	16
DBP	14	43	32	16	16
Atr	4	3	7	3	3
BPA	12	4	11	3	4
BaA	4	5	7	3	3
ButylPar	3	7	3	4	3
Cort	3	9	3	4	3
Cort_b	8		6		
DBP-TC	4	22	5	3	3
DDT	3	7	3	3	3
DES	3	8	3	3	3
DHT	4	5	5	3	3
Dex	8		6		
E ₂ -TC	4	36	5	3	3
EE ₂	3	9	3	3	3
EE ₂ _10xDilution		1			
EE ₂ _b		17			
ELactone	4	3	7	3	3
Equol	3	8	3	4	3
Gen	3	6	3	3	3
Gen_b	8		6		
HPTE	8		6		
Heptylphenol	4	3	7	3	4
Hexestrol	3	10	3	4	3
Kepone	4	3	7	3	3
NE-TC	4	3	5	3	3
NPhenol	3	6	3	3	3
Nethdrone	16		12		
OTES	12	3	13	3	3
Progesterone	4	2	7	3	4
Tamox	4	4	5	3	3
Zear	4	4	5	3	3

¹ There are 23 distinct test chemicals. Chemicals with the suffix “-TC” or “_b” are the same as chemicals without the extension. If a chemical was both uncoded and coded, then the coded chemical was labeled with “-b”. When standard chemicals were coded then they were labeled with “-TC”. EE₂_10XDilution is the same as EE₂.

Table 3. Number of Test Runs in Each Subtask, in which the Standard and Test Chemicals were Run with the CERI Protocol

Chemical	CeeTox	Lovelace	Missouri	Freyberger	JapanCERI
Subtask 1					
E ₂	3	5	11		3
NE	3	5	11		3
DBP	3	5	11		3
Subtask 2					
E ₂	3	12	3	7	3
NE	3	12	3	7	3
DBP	3	12	3	7	3
ButylPar	3	7	3	4	3
Cort	3	9	3	4	3
DDT	3	7	3	3	3
DES	3	8	3	3	3
EE ₂	3	9	3	3	3
EE ₂ 10xDilution		1			
Equol	3	8	3	4	3
Gen	3	6	3	3	3
Hexestrol	3	10	3	4	3
NPhenol	3	6	3	3	3
Subtask 3					
E ₂	5	9	11	9	10
NE	5	9	11	9	10
DBP	4	9	12	9	10
Atr	4	3	7	3	3
BPA	4	4	5	3	4
BaA	4	5	7	3	3
DBP-TC	4	5	5	3	3
DHT	4	5	5	3	3
E ₂ -TC	4	5	5	3	3
ELactone	4	3	7	3	3
Heptylphenol	4	3	7	3	4
Kepone	4	3	7	3	3
NE-TC	4	3	5	3	3
OTES	4	3	7	3	3
Progesterone	4	2	7	3	4
Tamox	4	4	5	3	3
Zear	4	4	5	3	3

Table 3. (Continued.)

Chemical	CeeTox	Lovelace	Missouri	Freyberger	JapanCERI
Subtask 4					
E ₂	4		6		
NE	4		6		
DBP	4		6		
BPA	8		6		
Cort_b	8		6		
Dex	8		6		
Gen_b	8		6		
HPTE	8		6		
NE	4		6		
Nethdrone	16		12		
OTES	8		6		
Subtask 12					
E ₂		14			
NE		12			
DBP		17			
DBP-TC		17			
E ₂ -TC		31			
EE ₂ _b		17			

Table 4.² Numbers of Test Runs, in Which the Standard and Test Chemicals were Run with the FWA Protocol

Chemical	CeeTox	Lovelace	Missouri	Freyberger	JapanCERI	Dietrich
E ₂	20	43	35	14	18	20
NE	20	41	35	14	18	18
DBP	20	42	35	14	18	16
Atr	5	4	4	4	5	4
BPA	9	4	14	3	4	3
BaA_DMSO	3	3	3		4	
BaA_EtOH			4	4	1	4
ButylPar	6	7	4	4	3	8
Cort	9	10	4	7	3	5
Cort_b	9		10			4
DBP-TC	4	9	4	3	3	3
DDT	6	5	4	7	3	10
DES	6	6	4	4	3	9
DHT	3	6	4	4	3	4
Dex	6		10			4
E ₂ -TC	4	10	4	4	7	4
EE ₂	11	10	4	4	3	10
EE ₂ _b		5				
ELactone	3	5	4	3	3	3
Equol	6	6	4	4	3	7
Gen	9	11	4	7	3	8
GenW			4			
Gen_b	6		10			
HPTE	6		10			3
Heptylphenol	3	6	4	4	4	3
Hexestrol	6	11	4	4	3	8
Kepone	3	6	4	3	3	5
NE-TC	3	5	4	4	3	4
NPhenol	6	5	4	4	3	9
Nethdrone	12		20			4
OTES	9	5	14	4	5	3
Progesterone	3	6	4	3	5	3
Tamox	3	6	4	3	4	4
Zear	5	5	4	4	5	3

² There are 23 distinct test chemicals. Chemicals with the suffix “-TC” or “_b” are the same as chemicals without the extension. If a chemical was both uncoded and coded, then the coded chemical was labeled with “-b”. When standard chemicals were coded then they were labeled with “-TC”. EE₂_10XDilution is the same as EE₂. BaA-DMSO and BaA-EtOH denote that the BaA was run in DMSO and EtOH respectively. See section 2.3.3 for detail explanation.

Table 5. Numbers of Test Runs in Each Subtask, in Which the Standard and Test Chemicals were Run with the FWA Protocol

Chemical	CeeTox	Lovelace	Missouri	Freyberger	JapanCERI	Dietrich
Subtask 1						
E ₂	3	6	8		3	3
NE	3	5	8		3	3
DBP	3	6	8		3	3
Subtask 2						
E ₂	8	16	4	7	3	6
NE	8	15	4	7	3	5
DBP	8	16	4	7	3	4
ButylPar	6	7	4	4	3	5
Cort	9	10	4	7	3	5
DDT	6	5	4	7	3	5
DES	6	6	4	4	3	5
E ₂ -TC	1					
EE ₂	8	10	4	4	3	5
EE ₂ _2	3					
Equol	6	6	4	4	3	4
Gen	9	11	4	7	3	4
GenW				4		
Hexestrol	6	11	4	4	3	4
NPhenol	6	5	4	4	3	5
Subtask 3						
E ₂	6	13	12	7	12	11
NE	6	13	12	7	12	10
DBP	6	12	12	7	12	9
Atr	5	3	4	4	5	4
BPA	3	4	4	3	4	3
BaA_DMSO	3	3	3		4	
BaA_EtOH			4	4	1	4
ButylPar						3
Cort_b	3					4
DBP-TC	4	4	4	3	3	3
DDT						5
DES						4
DHT	3	6	4	4	3	4
Dex						4
E ₂ -TC	3	5	4	4	7	4
EE ₂						5

Table 5. (Continued.)

Chemical	CeeTox	Lovelace	Missouri	Freyberger	JapanCERI	Dietrich
ELactone	3	5	4	3	3	3
Equol						3
Gen						4
HPTE						3
Heptylphenol	3	5	4	4	4	3
Hexestrol						4
Kepone	3	5	4	3	3	5
NE-TC	3	5	4	4	3	4
NPhenol						4
Nethdrone						4
OTES	3	5	4	4	5	3
Progesterone	3	5	4	3	5	3
Tamox	3	6	4	3	4	4
Zear	5	5	4	4	5	3
Subtask 4						
E ₂	3		11			
NE	3		11			
DBP	3		11			
BPA	6		10			
Cort b	6		10			
Dex	6		10			
Gen b	6		10			
HPTE	6		10			
Nethdrone	12		20			
OTES	6		10			
Subtask 12						
E ₂		8				
NE		8				
DBP		8				
Atr		1				
DBP-TC		5				
E ₂ -TC		5				
EE ₂ b		5				
Heptylphenol		1				
Kepone		1				
Progesterone		1				

All the laboratories except the University of Konstanz laboratory (Dietrich) used a data template that had been supplied by the EPA, and so had some commonality of data organization. However some of the laboratories used earlier versions of the templates. This required that the data be converted to the latest version of the data template prior to analysis. The data templates for the CERI and the FWA protocols differ. This section discusses the data templates for each of the two protocols and the how the data for individual runs for each laboratory were transferred to the latest versions of the templates.

EPA sent the DCC two templates: one is denoted v25i (Version 25i) for CERI protocol data and in the other v39 for FWA protocol data. The templates are designed so that once the competitive binding data (in disintegrations per minute, dpms) for a test run were entered data sheet called “Compet input”, the percent binding figures were output (see section 2.3 for more detail about the data template and the organization of chemical runs).

2.1 CERI template

Under direction from EPA, the v25i data template was modified and the new template was defined as v25k³. Data template v25i needed to be updated because in the “Compet Input” data sheet of the v25i data template, the label for cell S24 is “Negative control (at 1.0 E-6 M only)” but the value is actually at 1.0E-7 M. Also the % bound was calculated using the buffer control instead of solvent control. Template v25i was updated to v25k with the following steps (steps 2 – 5 to change buffer control to solvent control; steps 6 – 9 to change negative control value back to 1.0 E-6 M) and all changes were made to the “Compet Input” data sheet:

1. Review/Unprotect sheet. Password is hrER.
2. Change cell V23 (column V, row 23) from “=AVERAGE (X33:X35)” to “=AVERAGE(X102:X104) (Using solvent control)”
3. Change cell S23 from “Specific binding” to “Specific binding in Solvent control”
4. Change cell U23 from “=COUNT(X33:X35)” to “=COUNT(X102:X104)”
5. Change cell WX23 from “=STDEV(X33:X35)” to “=STDEV(X102:X104)”
6. Change cell V24 from “=AVERAGE(V90:V92)” to “=AVERAGE(X93:X95)”
7. Change cell S24 from “Negative control (at 1.0 E-6 M only)” to “Specific binding of negative control (at 1 uM only)”
8. Change cell U24 from “=COUNT(V90:V92)” to “=COUNT(X93:X95)”
9. Change cell WX24 from “=STDEV(V90:V92)” to “=STDEV(X93:X95)”

Formulas programmed in data template v25i were preserved in data template v25k, including the 10% rule for identifying data that are on the right-hand side of a U-shaped curve and therefore should be excluded from curve-fitting.

The individual laboratory data were converted into the CERI template v25k before they were used for the PRISM model fits and further statistical analyses.

³ The data templates were developed in Excel. The cell numbers refer to Excel worksheet cell numbers.

To transfer the data into the new template from the laboratory template, the following was copied from the original lab data files and pasted into the v25k template:

- the DPM data (column P, rows 33-397).
- the test runs' specific information (column P, rows 6-16) .
- the "Summary Values (DPM)" (block: columns U - X, rows 18-24)
- If data were flagged as "outliers" or "impossible value" (column S) in the laboratory templates, then column S was replaced to add this information into the v25k file.

Thus the observed data were copied from the original data template and pasted into v25k template. Any calculations within the data template were conducted using the formulas, as programmed in the v25k template. The derived values in the original template may be different from those in the derived values in the v25k template due to the revision discussed above.

The Bayer HealthCare (Freyberger) laboratory reported DPM counts for 50 uL volume rather than the 25 uL volumes for the other laboratories, but they multiplied the DPM counts by 4 instead of by 2 to come up with DPM counts for 100uL. Also there was an error for entering the volume of filtrate counted (cell P16). It is supposed to be 50 uL instead of 30 uL. Thus the template v25k was modified to fix the problems in the originally received data files. The new data files were thus labeled as "v25kmod". The detailed steps to modify v25k are:

- changed volume from 30 ul to 50ul (cell P16).
- copied column DPM values (P33-397) and pasted them into column O (O33-397).
- replaced the DPM values (P33-397) by half by multiplying a factor of 0.5 to the O column (using function $\text{IF}(O33 > 0, 0.5 * O33, "")$).

The version of the data template (v25k or 25kmod) is given on the bottom of the data sheet "Note" in the Excel data files. Some converted Excel data files contain the template version (v25k) in the file names and some do not.

2.2 FWA template

EPA sent the DCC template v39 (Version 39) for the FWA data. The individual laboratory (FWA) data were converted into the v39 template if they were not already in v39. In general, the conversion of data in earlier versions of the template into the new was the same as those described for the CERi template above.

The Bayer HealthCare (Freyberger) Version 39 laboratory data were organized differently than those for the other labs. The concentrations in the column named

“Competitor Final Concentration (M)” (column N) were in increasing order, whereas those in the standard v39 template were in decreasing order. Thus:

- The block “Competitor Final Concentration (M)” in the v39 template was first unlocked (the block in template v39 is password protected), then rows 33-421 for columns A through P in the Freyberger file format were placed in the new “v39” (v39mod) Excel files.
- Copied and pasted column P, rows 6-15.
- Copied and pasted column S, rows 10-12.
- Due to the ordering problem (as described above), the calculation formulas for “Negative control (at 1.0 E-6 M only)” (N Mean and SD) needed to be modified to use the values (from rows 102-104 (in v39) to rows 108 – 110 (in v39mod)).

The University of Konstanz (Dietrich laboratory) ran only the FWA protocol. Data files for this laboratory were in two different formats. Files in subtask 1 were in a laboratory specific data template, inconsistent with the EPA data template. Files in the other subtasks were in an unknown version of a modified EPA template.

For subtask 1, there were six measured hot DPM determinations called for in the v39 template, and they were supposed to be entered in cells V117:V122. The summary results were generated in “Total hot E₂ added to each well” (cells U21:W21). These six measured hot DPM determinations were not available for the Dietrich lab. Instead, the lab template used the three measured values (in cells S10:S12), and the statistics (n, mean and SD) for hot dpm (cells U21, V21, W21, and X21) were computed using these data. Thus the v39 template was modified (only for the Dietrich lab’s data) to redirect the calculation of summary statistics for the “Total hot E₂ added to each well” using the three measured values in cells S10:S12. This modified template is renamed as v39mod. The data were copied and pasted from the original data template into the v39mod template using the following steps (See appendix B for an example): Note that the templates for Bayer HealthCare and for University of Konstanz were both labeled “v39mod”, even though the modification from template v39 differed for the two laboratories.

- The hot concentrations used should be “nominal” for the theoretical value, and “corrected for calibration factor” for the measured values. Columns from K to M (“corrected for calibration factor”) should be input to column P of v39mod “DPM as sampled”. These values needed to be transposed before being entered into column P.
- The specific activity value is equal to 4.07 TBq/mmol (The radioactive ligand [2,4,6,7,16,17-³H(N)]-estradiol [³H]- E₂) was purchased from Perkin Elmer Life and Analytical Science, Boston, MA, with a specific activity of 4.07E12 Bq/mmol and a specific concentration of 3.7E07 Bq/ml in ethanol.

There were two files for each run in subtask I in the Dietrich data: one was labeled “_Addendum_”, which was the latest and is described as “recalculated”. The ones with “_Addendum_” were analyzed in this study.

For subtask 2, the Dietrich lab's data files were provided in a modification of an unknown version of the EPA data template. The format was similar to that of v39, but the concentration levels for some chemicals had different ranges: the concentration level for the test chemicals in the v39 template ranged from $10\text{E}-10$ to $10\text{E}-3$ in base 10 log scale; the concentrations in the laboratory data started from a higher level and ended at a higher level as well for some test chemical in some test runs. Thus the block "Competitor Final Concentration (M)" in the v39 template was first unlocked (the block in template v39 is password protected), then rows 33-421 for columns A through P in the Dietrich file format were placed in the new ",v39" (v39mod) Excel files.

Also there is an extra concentration level $10\text{E}-3$ for the standard negative control DBP in the Dietrich data set, which was placed on the three blank lines in the input data sheet of the v39 template (rows 93 to 95) when converting the data into the v39 template. However the template v39 was not designed to display these three lines of data in the displayed output data. At this time, no attempt was made to change the v39 to include these data for DBP output display since it involved a more extended change to the link functions within the v39 template. Note that other laboratories did not include this concentration level for the standard DBP. Thus, the concentration levels for the standard DBP were consistent for all laboratories when this extra concentration was not included for the Dietrich laboratory. However, it should be noted that the data point at 10^{-3} M for DBP has, in some labs, affected the binding classification of this chemical. That is, in some cases DBP appears to be a non-binder when tested to 10^{-4} M, but is classified as a binder when data from 10^{-3} M are available. The extent to which this occurs in the Dietrich data for the runs of DBP as a standard was not investigated in this analysis.

Details of the data conversion for individual runs and laboratories are summarized in Appendix B.

2.3 Organization of Chemical Data

Laboratories organized multiple test chemicals within each test run and within each Excel worksheet. Data were input into the data sheet called "Compet Input". The % of radioligand bound at each concentration of test chemical was then calculated by the spreadsheet and results were displayed in four output data sheets called "Compet output – standards" (for three chemicals: E_2 , NE and DBP), "Compet output - Chems 1-4", "Compet output - Chems 5-8" and "Compet output - Chems 9 -12". The chemical output data sheets each have at most 4 chemicals. Some laboratories used two Excel files to store all chemicals for a test run.

2.3.1 Standard Chemical Runs

Each test run included three standard chemicals: estradiol (E_2) (strong binder), norethynodrel (NE) (weak binder), and dibutylphthalate (DBP) (negative control). These chemicals were run as known chemicals. The standard chemicals were run by themselves in subtask 1 and along with the test chemicals in the other subtasks.

2.3.2 Test Chemicals

The test chemicals were run in different subtasks (see Appendix Table A-1). Some chemicals were run in several subtasks, and some were only run in one subtask. In subtasks 1 and 2, the test chemicals were uncoded and in subtasks 3, 4 and 12, the chemicals were coded. Only standard chemicals were run in subtask 1, and the Bayer HealthCare (Freyberger) did not participate in subtask 1. Only CeeTox and Missouri laboratories participated in subtask 4 and chemicals Dex, HPTE and Nethdrone were only run in subtask 4. Subtask 12 was only conducted by Lovelace. In some subtasks, the standard chemicals were also run as coded test chemicals. Appendix A, Table A-1 lists the codes used by the laboratories in each subtask. Tables 2 and 4 summarize all the test chemical runs with the CERi and the FWA protocols respectively, across subtasks and laboratories. Tables 3 and 5 break down the enumerations by subtask.

2.3.3 DMSO Runs

EPA had requested that BaA in the FWA protocol be run in DMSO due to concerns about solubility in ethanol, which is the default solvent for that protocol. CeeTox, Missouri, Lovelace and Japan CERi (four out of five test runs) used DMSO, while the Freyberger and Dietrich laboratories ran BaA in ethanol. Japan CERi ran BaA in ethanol in one test run and Missouri ran four BaA runs in ethanol before they ran the BaA again in DMSO. Freyberger and Dietrich each also ran four DMSO runs which did not include BaA. Appendix A-2 documents all the DMSO runs.

When DMSO was used as the solvent for the test chemical, the standards for that run were also prepared in DMSO.

2.3.4 Decoding the Blinded Chemicals

Because the test chemicals in Tasks 3 and 4 were coded and not all labs used the same coding system, the study data needed to be matched with the test chemical names before results could be compared across labs. Also when the original data from the laboratories were being converted into the correct version of the data templates they needed to be matched with the correct chemical names or the blinded chemical codes, through the chemical coding sheet and the original data, as well as with the PRISM files generated by the laboratories. The names of the test chemicals and the corresponding data sets are listed in Appendix B.

Some test runs were stored by the laboratories in multiple files, for which the standard chemicals data were the same. The duplicate data for the standard chemicals were not included in further analysis.

3.0 Model Fitting in PRISM

Data for all standards and test chemicals were fit (where possible) to a one-site competitive binding model using GraphPad PRISM software.

At EPA's request, data for estradiol and norethynodrel, when run as standards, were analyzed both with and without accounting for ligand depletion. For test chemicals,

analysis was done without accounting for ligand depletion. Only the results without adjustment for ligand depletion were used for the tolerance interval calculation and for the binding classification. The rationale for this is discussed in later sections.

The results of the PRISM fits are presented in layouts consisting of a graph showing the percent binding of each replicate at each concentration as well as the fitted curve (where PRISM was able to fit a curve); and a table of parameter estimates. These PRISM analyses for each test run for each chemical are displayed in Appendix C. (Due to the very large number of PRISM fits, they are accessible only in electronic form.)

3.1 Standard Model - A modified Four Parameter Hill Equation Model – No Adjustment for Ligand Depletion

A four parameter one site competitive binding model was fitted to the binding assay data by nonlinear regression. The model takes a form of the four parameter Hill equation, and describes the relationship between $Y = \% \text{ specific binding}$ and $X = \log_{10}(\text{concentration of test chemical in molar units})$:

$$Y = B + \frac{T-B}{1+10^{[(\mu-X)*H+\log_{10}(\frac{T-B}{50-B}-1)]}}$$

where μ is the $\log_{10}IC_{50}$, representing the value of X corresponding to the response $Y = 50\%$ (where 100% is the mean binding in the baseline control wells [usually the solvent control wells], not the maximum binding of the test chemical). H is the Hill slope, T is the top plateau and B is the bottom plateau. This model was programmed in PRISM and fitted to each individual test run.

The renormalized percent binding values were defined as the specific binding of the test chemical relative to the mean solvent control in a percentage and were calculated in Excel for each run (as stored in the output specific binding data sheet within the block named “B/B0(%),all usable values”), and these data were transferred to PRISM (Version 5.01) for model fitting. The four parameter one site competitive binding model was fitted to the data using PRISM’s algorithm for nonlinear least squares. Automatic outlier deletion was not used. Parameter estimates and curve data were generated.

Both the FWA and the CERl protocols included guidance for data analysis that was intended to suppress data points that might inappropriately elevate the bottom of the binding curve. In prior experiments related to competitive binding assays, it had been found that although the data points for a chemical might describe – with little variability between replicates – an appropriate sigmoid curve that approximated the theoretical curve expected for one-site competitive binders at most concentrations, at high concentrations there might be data points that appeared to show less binding than at lower concentrations. Such “U-shaped curves” are generally considered artifacts of the test conditions (due, for example, to insolubility at high concentrations) rather than relevant descriptors of the binding affinity of the test chemical. Leaving such data points in when fitting a curve could inappropriately raise the perceived bottom of the curve. To avoid this, labs were instructed to exclude all replicates where the replicate mean showed 10%

more radioligand binding than the lowest mean at a lower concentration. During the conduct of experiments, it was observed that this rule had an unintended consequence. Chemicals that did not interact with the receptor often showed variability greater than 10% across concentrations. If the lowest value happened to be at a low concentration, the data from all higher concentrations were discarded by the rule, even though those concentrations could have been useful in establishing that the chemical was non-interactive. All of the labs participating in the validation effort had problems with this rule for many of the negative chemicals. In many instances, half of the data points were excluded from the curve fitting.

Upon advice from an international advisory group monitoring the validation exercise, a lab was allowed to ignore the “10% rule” if it had reason to believe that the test chemical was a non-interactive. This subjective waiver of the 10% rule was not considered appropriate for the statisticians doing the uniform statistical analysis to exercise, nor did EPA have the resources for such an effort within the time constraints of the contract. Thus the decision was made to ignore the 10% rule in all cases. The EPA considered it to be unlikely that observance or non-observance of this rule would change the classification of a test chemical as interactive, not interactive, or equivocal. Because all of the data points are plotted in the graphs presented in Appendix C, instances where the curve fit is influenced by an increase at the highest concentrations of test chemical, can be identified through observation.

3.2 Model with Adjustment for Ligand Depletion

The standard competitive binding model with no adjustment for ligand depletion (i.e., the model described above) is valid under the assumption that just a small fraction of the radioligand binds to receptors. This means that the concentration of free radioligand in solution is nearly the same as the concentration of radioligand added. If a large fraction of the radioligand binds to receptor, then the free concentration will be less than the added concentration of radioligand. Since the protocols were designed to bind 40% of radioligand in the CERI protocol and 20% in the FWA protocol, there was concern that the assumption of no ligand depletion was inappropriate. Models with adjustment for ligand depletion were therefore considered.

The models with adjustment for ligand depletion were fitted only to the E₂ and the NE standards results, to see if there were significant differences for these standards before deciding whether to apply the adjustments to the data for test chemicals. Since for E₂ both the competitor and the labeled chemical are the same, the homologous competitive binding model with adjustment for ligand depletion was applied to the E₂ data (Motulsky H., Christopoulos A., 2003). The heterologous competitive binding model adjusted for ligand depletion was applied to the NE data. These models were applied to the DPM data (column U (log-concentration) and column V (DPM data) on the data sheet "Compet input"). For the models with adjustment for ligand depletion, the total reaction volumes (mL) in the test wells, specific activity values (dpm/fmol), the added hot DPM, and the mean specific binding (for the solvent control) were test run specific and were obtained from the input data sheets and entered into the PRISM models.

3.2.1 One site - Homologous model with adjustment for ligand depletion

The one site homologous model with adjustment for ligand depletion requires two corrections to account for ligand depletion - one for specific binding and one for non-specific binding. Let Y denote the total binding of radioligand in dpm in the incubation volume (in mL) and X denote the logarithm (base 10) of the total added unlabeled ligand in M. The formula takes the form

$$Y = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

where

$$a = -(1 + NS) * Total(nM)$$

$$b = Hot(dpm) * (Total(nM) + K_d) * (NS + 1) + Total(nM) * Hot(dpm) * NS + B_{max} * Hot(nM)$$

$$c = -Hot(dpm) * (Total(nM) + K_d) * Hot(dpm) * NS - Hot(dpm) * B_{max} * Hot(nM)$$

$$Total(nM) = Hot(nM) + 10^{X+9} \equiv \text{labeled} + \text{unlabeled}$$

K_d is the equilibrium dissociation constant of the radioligand, which is in nM units, B_{max} is the maximal density of binding sites for the radioligand and is in dpm units (for the specified incubation volume), NS is the fraction of the free ligand that binds non-specifically. Hot is the concentration of labeled ligand added to each tube, which is measured in dpm (again, for the specified incubation volume). K_d , B_{max} and NS are model parameters to be estimated by fitting the model to the total binding dpm data. To fit this model to the data, Hot values were converted from dpm to nM using the conversion

$$Hot(nM) = Hot(dpm) / (SpAct \text{ (dpm/fmol)} * Vol(mL) * 1000)$$

3.2.2 One site – Heterologous model with adjustment for ligand depletion

The one site heterologous model with adjustment for ligand depletion also needs two corrections to account for ligand depletion: one for the specific binding and one for non-specific binding. Let Y denote the total binding in dpm in the incubation volume (Vol, in mL), X is the $\log_{10}$ (concentration of competing test chemical in M). The formula takes the form

$$Y = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

Where,

$$a = -(1 + NS)$$

$$b = (NS + 1) * [(1 + 10^{X - \log K_i}) * Kd + Hot(nM)] + NS * Hot(nM) + B_{max}$$

$$c = -Hot(dpm) * [(1 + 10^{X-\log K_i}) * Kd + Hot(nM)] * NS + B_{max}$$

K_d is the equilibrium dissociation constant of the labeled radioligand in nM, which is estimated by the homologous model with adjustment for ligand depletion as applied to the E_2 in the same test run. K_i is the equilibrium dissociation constant of the unlabeled test chemical, which is in M units. B_{max} is the maximal density of binding sites for the radioligand and is in dpm units (in the specified incubation volume), and NS is the fraction of the free ligand that binds non-specifically. Hot is the concentration of labeled ligand added to each tube, which is measured in dpm in the incubation volume). K_i , B_{max} and NS are model parameters to be estimated by fitting the model to the total binding dpm data. To fit this model to the data, K_d was converted from nM to dpm using the conversion

$$Kd(dpm) = Kd(nM) * SpAct (dpm/fmol) * Vol(mL) * 1000$$

The binding curves were compared side-by-side between the two models with and without adjustment for ligand depletion. The total binding measures (Y) in dpm were transformed into % specific bound using the following formula:

$$\% \text{ specific bound} = ((1+NS)*Y - Hot(dpm)*NS) / (\text{meanTB}(dpm) - NS*(Hot(dpm) - Y)) * 100.$$

where meanTB(dpm) is the mean total binding in the solvent control. This transformation is applied to the raw total binding DPM data and the predicted total binding DPM curves.

Ligand depletion is usually not considered as significant a consideration in competitive binding assays as in saturation binding assays, where the lowest concentrations of radioligand used may be so low that a non-negligible fraction of it binds, leading to a violation of the assumption that the concentration of free radioligand remains substantially unchanged. However, in the FWA and CERI protocols, the concentration of receptor is intentionally adjusted so that 20% (FWA) or 40% (CERI) of radioligand is bound in the absence of competitor. Although there is no specific rule determining whether such fractions are negligible, it was considered appropriate to examine whether ligand depletion makes a significant difference in the analysis of the competitive binding data for these protocols. EPA thus attempted to compare the PRISM analyses with and without accounting for ligand depletion for each run of estradiol and norethynodrel as standards. Both the plots of the fits as well as the tables of values supplied by the PRISM analyses were considered. (Appendix C)

3.3 Comparison of analyses accounting for, and not accounting for, ligand depletion

The tables of values were not directly comparable between models. When ligand depletion is not accounted for, PRISM supplies best-fit values for top, bottom, slope, and $\log IC_{50}$, as well as standard errors, 95% confidence intervals, and measures of goodness of fit. When ligand depletion is accounted for, PRISM supplies best-fit values for K_d ,

NS, and $B_{\max}$, as well as their standard errors, 95% confidence intervals, and measures of goodness of fit. (K_i is also estimated in the heterologous binding model.) (Note: The model depends on the value for total radioligand added per well but does not consider the variability of this measured value when estimating the variability of the calculated values.) Although attempts were made to parameterize the model accounting for ligand depletion in terms of top, bottom, and slope, no such parameterization was found in the literature. Some approximation approaches were discussed, but it was determined that more needs to be done to verify them before they can be used in further analysis.

The model accounting for ligand depletion was not used in further analysis of the data because performance criteria could not be derived for top, bottom, or slope using this model. K_d and $B_{\max}$ (and K_i , for the heterologous binding model), the primary outputs when ligand depletion is accounted for, are unsuitable for use as performance criteria because both the FWA and the CERI protocol use only one concentration of radioligand in the runs of the standard chemicals, and K_d and $B_{\max}$ are not well-defined in this case. Before abandoning the model that accounts for ligand depletion, however, EPA considered whether it might offer useful qualitative information about the conduct of a run. While in many cases accounting for ligand depletion did “correct” tops, bottoms, and slopes in directions that were in keeping with the expected values of 100%, 0%, and -1 respectively for one-site competitive binders, there were substantially more cases in which the model did not converge or the fit was ambiguous. This may have been due to the dependence of the fit on both K_d and $B_{\max}$, which are ill-defined when data from runs using only one concentration of radioligand are available. No further attempts were made to find initial parameter values that might have allowed the model fitting to converge on stable values.

The decision not to correct for ligand depletion is consistent with the guidance given in the protocols.

3.4 Identification and treatment of outliers

Labs were instructed to use robust regression for fitting curves unless justification is given for using a different method. However, the robust regression approach in PRISM does not produce the standard errors of parameter estimates. The variabilities (as represented by these standard errors) within test runs need to be taken into account for computing the tolerance intervals. The use of ordinary least squares in the uniform analysis across laboratories was necessary in order to obtain confidence intervals for the parameters, which in turn were necessary in order to develop tolerance bounds and to determine binding classification of the test chemicals.

All of the data were submitted by the labs, and data points were only excluded from the analysis if there was a known justification (e.g., a well was skipped by accident or double additions of solvent or test chemical were added). The PRISM software includes an option that will allow for automatic outlier exclusion. However, initial tests of this option by EPA on chemicals that gave results on the border of two categories (e.g., non-interactor/equivocal, or equivocal/interactor), indicated that automatic exclusion of outliers would not affect the classification of the chemicals. Work to determine how

performance criteria for the reference chemical and weak positive were influenced by outliers was cancelled based on tight deadlines within the contract for statistical analysis.

3.5 Relative Binding Affinity Derived from the PRISM Fits

Relative Binding Affinity (RBA) of norethynodrel compared to estradiol is defined as

$$\text{RBA} = \text{IC}_{50\text{standard}} / \text{IC}_{50\text{weak positive}}.$$

Based on the estimates for $\log_{10}\text{IC}_{50}$ for the standard curves and the weak positive for the same test runs, $\log_{10}\text{RBA}$ was estimated as

$$\log_{10}\text{RBA} = \log_{10} \text{IC}_{50\text{standard}} - \log_{10} \text{IC}_{50\text{weak positive}}$$

The standard error associated with $\log_{10}\text{RBA}$ was calculated as

$$\text{SE}(\log\text{RBA}) = [\text{SE}(\log_{10} \text{IC}_{50\text{standard}})^2 + \text{SE}(\log_{10} \text{IC}_{50\text{weak positive}})^2]^{1/2}$$

The Relative Binding Affinity (RBA) of the weak positive adjusts for those sources of variation that affect all chemicals in the run, e.g. the strength of the protein. Therefore any run-to-run variation remaining in the RBA reflects those sources of variation that differentially affect the chemicals in the run, e.g. dilution errors or varying batches of chemical. By contrast $\log(\text{IC}_{50})$ reflects all sources of variation.

4.0 Acceptable and Unacceptable Runs

PRISM fits were attempted for each control and test chemical, for all the test runs. Attempts were made to fit the data from each test run for all chemicals with the four parameter one-site competitive binding model with no adjustment for ligand depletion. Some test runs could be successfully fit and some could not. Model fits that PRISM marked as “ambiguous” were treated as “could not be fit”. The results of the PRISM model fit attempts were sent to EPA for review.

EPA reviewed the results of the model fits to the E_2 and NE standards data and made decisions as to whether the test runs were acceptable or unacceptable for E_2 and NE independently (Appendix D: Tables D-1 through D-11). The designations took into consideration the values for top, bottom, slope, residual variability around the fit to the one-site competitive binding model (not accounting for ligand depletion), and $\log\text{IC}_{50}$. Specifically, in order to be considered “acceptable”, the top needed to be approximately 100%, the bottom needed to be approximately 0%, the slope needed to be approximately -1, and both the variability of the residuals and the $\log\text{IC}_{50}$ had to be reasonable. The ratio of solvent control disintegrations-per-minute (dpms) to buffer control dpms was also considered in the designations, though not in the tolerance bound determinations. This ratio was expected to be close to 1. All of these were subjective judgments, and judgments were made considering all criteria simultaneously rather than separately. The designations were made by two people at EPA. Time constraints prevented each

evaluator from evaluating all runs. Instead, after an initial evaluation of the same 46 (CERI protocol) runs independently to be sure that judgments were approximately the same, one evaluator evaluated the CERI protocol runs and the other evaluated the FWA protocol runs. After a preliminary determination of tolerance bounds, “acceptable” runs that were substantially outside the tolerance bounds for any single parameter were re-examined and in some cases reclassified by EPA as “unacceptable”. The tolerance bounds were then recalculated.

The numbers of acceptable and unacceptable runs are summarized in Table 6 and 7. All subsequent references to acceptable and unacceptable runs in the analysis and reporting are based on the EPA designations, rather than the laboratory designations. The tolerance interval determinations in the following section were based on the acceptable runs only.

Table 6. Numbers and Percent of Acceptable runs in CERI Protocol

Laboratory	Acceptable in both E₂ and NE	Acceptable in E₂	Acceptable in NE	Total Runs
CeeTox	10 (66.7%)	13 (86.7%)	11 (73.3%)	15
Lovelace	20 (50%)	24 (60%)	23 (57.5%)	40
Missouri	28 (90.3%)	31 (100%)	28 (90.3%)	31
Freyberger	14 (87.5%)	15 (93.8%)	15 (93.8%)	16
JapanCERI	16 (100%)	16 (100%)	16 (100%)	16

Table 7. Numbers and Percents of Acceptable runs in FWA Protocol

Laboratory	Acceptable in both E₂ and NE	Acceptable in E₂	Acceptable in NE	Total Runs
CeeTox	15 (75%)	18 (90%)	16 (80%)	20
Lovelace	7 (16.3%)	12 (27.9%)	12 (27.9%)	43
Missouri	25 (71.4%)	27 (77.1%)	29 (82.9%)	35
Freyberger	11 (78.6%)	13 (92.9%)	11 (78.6%)	14
JapanCERI	16 (88.9%)	16 (88.9%)	17 (94.4%)	18
Dietrich	13 (72.2%)	14 (77.8%)	14 (77.8%)	18

Histograms for the parameter estimates were prepared to demonstrate the behavior of the acceptable and unacceptable runs. These histograms were prepared separately for the standard reference chemical E₂ and for the weak positive chemical NE (Appendix F). The histograms showed that the parameter estimates for the acceptable runs were closer to normally distributed, as compared to the parameters for the unacceptable runs, which suggested that the acceptable run curves were more homogeneous.

5.0 Construction of Tolerance Bounds on Standards

Univariate tolerance intervals to contain 80% of the population of acceptable test runs across all laboratories with 95% confidence were calculated and assessed as potential performance criteria for the reference standard (estradiol) and the weak positive standard (norethynodrel). They were calculated for the top, bottom and slope for the reference and weak positive runs, and for the $\log_{10}$ RBA of the weak positive relative to the reference chemical. One-sided tolerance intervals were calculated for the residual standard deviations of estradiol and norethynodrel as a precision criterion to assess the model fit. The tolerance intervals were calculated based only on the acceptable runs, as designated by EPA. For the FWA protocol, the DMSO runs, regardless of whether they were designated as acceptable runs, were also excluded from the tolerance interval calculations. For $\log_{10}$ RBA, the acceptable runs were those for which both the estradiol and the norethynodrel results were designated by EPA as acceptable.

The tolerance intervals were then applied to screen all test runs including both acceptable and unacceptable runs for assessing the performance of individual test runs. The parameter estimates for all test runs were displayed in the figures with the tolerance interval limits as the reference lines. Parameter estimates for the acceptable runs and the unacceptable runs, as well as the acceptable DMSO runs and the unacceptable DMSO runs were displayed in the figures with different symbols to distinguish them. Thus, the distributions of the parameter estimates for the curve fits performance of unacceptable and acceptable runs can be visualized in the plots.

The tolerance bounds were constructed on the results of the PRISM model fits, using the standard Hill equation with no adjustment for ligand depletion, and a mixed effects analysis of variance. For each parameter, estimates and their associated standard errors were determined for each test run based on the PRISM model fits. The estimates in the acceptable test runs were combined by mixed effects analysis of variance to determine the sources of variation – within run-variance, between-run variance within labs, and between-lab variance. The combined results were then used to calculate the tolerance bounds. These statistical analyses were performed using the STATA[®] software (STATA, 2009).

Within-run Variance

For each parameter, the within-run variances (the squares of the standard errors) associated with the parameter estimates from the model fits to each test run were pooled across all acceptable test runs to obtain a pooled within-run variance. A mixed effects analysis of variance (Neter, etc, 1996), including lab-to-lab variance and run-to-run variance was applied to the log-transformed within-run variance, and the pooled results from the model fit were then returned to the original scale. The pooled within-run variances were used as a component of variation in the calculation of the tolerance bounds

Analysis of Variance and Tolerance Intervals

The estimates based on the acceptable test runs were combined by a heterogeneous variance random effects analysis of variance, (Neter, etc, 1996), and their average values, standard errors, and variance components were determined from the fit. This mixed effects analysis of variance included lab and test run as random effects and the pooled within-run variance. The combined results and the covariance estimates from the model fits were used to construct tolerance intervals.

Two-sided tolerance intervals to contain 80% of the population of test runs with 95% confidence were calculated for the top, bottom, Hill slope and $\log_{10}$ RBA, and one-sided tolerance intervals to contain 80% of the population of acceptable test runs across all laboratories with 95% confidence were calculated for the residual standard deviation. Tolerance bounds for the top, bottom, Hill slope, and residual standard deviation were calculated separately for each parameter, for the reference chemical and for the weak positive.

The two-sided tolerance bounds to include $100(1-p)\%$ of the population with confidence level $100(1-\gamma)\%$ were determined as

$$\hat{\mu} \pm ks$$

where k is based on the non-central t-distribution with non-centrality parameter dependent on the coverage level of the tolerance interval, $\hat{\mu}$ is the overall average estimated parameter value across runs and labs, and s is the square root of the total variance of the parameter, which includes within run, run-to-run within lab, and lab-to-lab components of variation. The variance components and their precision were estimated based on the mixed effects analysis of variance.

The two-sided tolerance bounds for each parameter are displayed in Table 8 for top, bottom and Hill slope and in Table 9 for $\log_{10}$ RBA.

The one-sided upper tolerance bound to include $100(1-p)\%$ of the population with confidence level of $100(1-\gamma)\%$ is determined similarly to the two-sided bounds for the other parameters. It is of the form

$$\hat{\mu} + ks$$

where $\hat{\mu}$, k , and s are as discussed above. The upper tolerance bounds were calculated for the log-transformed residual standard deviation and back transformed to the original scale. The one-sided upper tolerance bounds for the $\log_{10}$ residual standard deviation and for the residual standard deviation are displayed in Table 10.

The tolerance bound screens were applied to both the acceptable and the unacceptable runs for each parameter. The individual results for each run are presented in table forms in Appendix E. Parameter estimates falling outside the tolerance intervals are

flagged. The screening results are presented graphically in Figures 1 to 9 for the CERI protocol and Figures 10 to 18 for the FWA protocol. The “acceptable” and the “unacceptable” runs are distinguished by different symbols.

Table 8. hrER α Competitive Binding Assay Performance Criteria: Tolerance Intervals to Contain at Least 80% of Population of Test Runs with 95% Confidence for Top, Bottom and Hillslope Parameters for the Reference Chemical (E₂) and Weak Positive (NE). Calculated Using Acceptable Runs.

Protocol	Chemical	Parameter	Average Estimate	Std Error Estimate	Lower Limit	Upper Limit
CERI	E ₂	Top	107.83	4.06	56.34	159.33
		Bottom	1.05	0.59	-4.76	6.87
		HillSlope	-1.20	0.04	-2.26	-0.14
	NE	Top	103.71	2.88	67.45	139.97
		Bottom	2.48	1.02	-9.67	14.63
		HillSlope	-1.02	0.03	-1.78	-0.27
FWA ^a	E ₂	Top	101.60	0.92	89.14	114.05
		Bottom	0.32	0.21	-1.36	2.01
		HillSlope	-1.02	0.04	-1.91	-0.13
	NE	Top	101.15	2.01	76.83	125.47
		Bottom	2.23	0.73	-5.42	9.89
		HillSlope	-0.96	0.04	-2.05	0.13

a. DMSO runs were not included in the tolerance interval calculation.

Table 9. hrER α Competitive Binding Assay Performance Criteria: Tolerance Intervals to Contain at Least 80% of Population of Test Runs with 95% Confidence for Log-Transformed Relative Binding Affinity (RBA) for Norethynodrel compared to Estradiol. Calculated Using Acceptable Runs.

Protocol	Parameter	Average Estimate	Std Error Estimate	Lower Limit	Upper Limit
CERI	logRBA	-2.75	0.08	-3.40	-2.10
FWA ^a	logRBA	-2.54	0.08	-3.17	-1.92

a. DMSO runs were not included in the tolerance interval calculation.

Table 10. hrER α Competitive Binding Assay Performance Criteria: One-sided Upper Tolerance Limit to Contain at Least 80% of Population of Test Runs for the Precision Parameter for the Reference Chemical and Weak Positive with 95% Confidence. Calculated Using Acceptable Runs^a.

Protocol	Chemical	Mean Log ₁₀ (Syx)	Std Error Mean Log ₁₀ (Syx)	Upper Limit Log ₁₀ (Syx)	Geometric Mean Syx	Geometric Std Error Syx	Upper Limit Syx
CERI	E ₂	1.60	0.26	2.92	4.93	1.30	18.60
	NE	1.43	0.22	2.59	4.17	1.24	13.29
FWA^b	E ₂	1.41	0.20	2.51	4.11	1.22	12.36
	NE	1.39	0.14	2.23	4.01	1.16	9.27

- Residual standard deviations (Syx) of model curve fits for estradiol and norethynodrel are used as the precision criterion to assess the model fit.
- DMSO runs were not included in the tolerance interval calculation

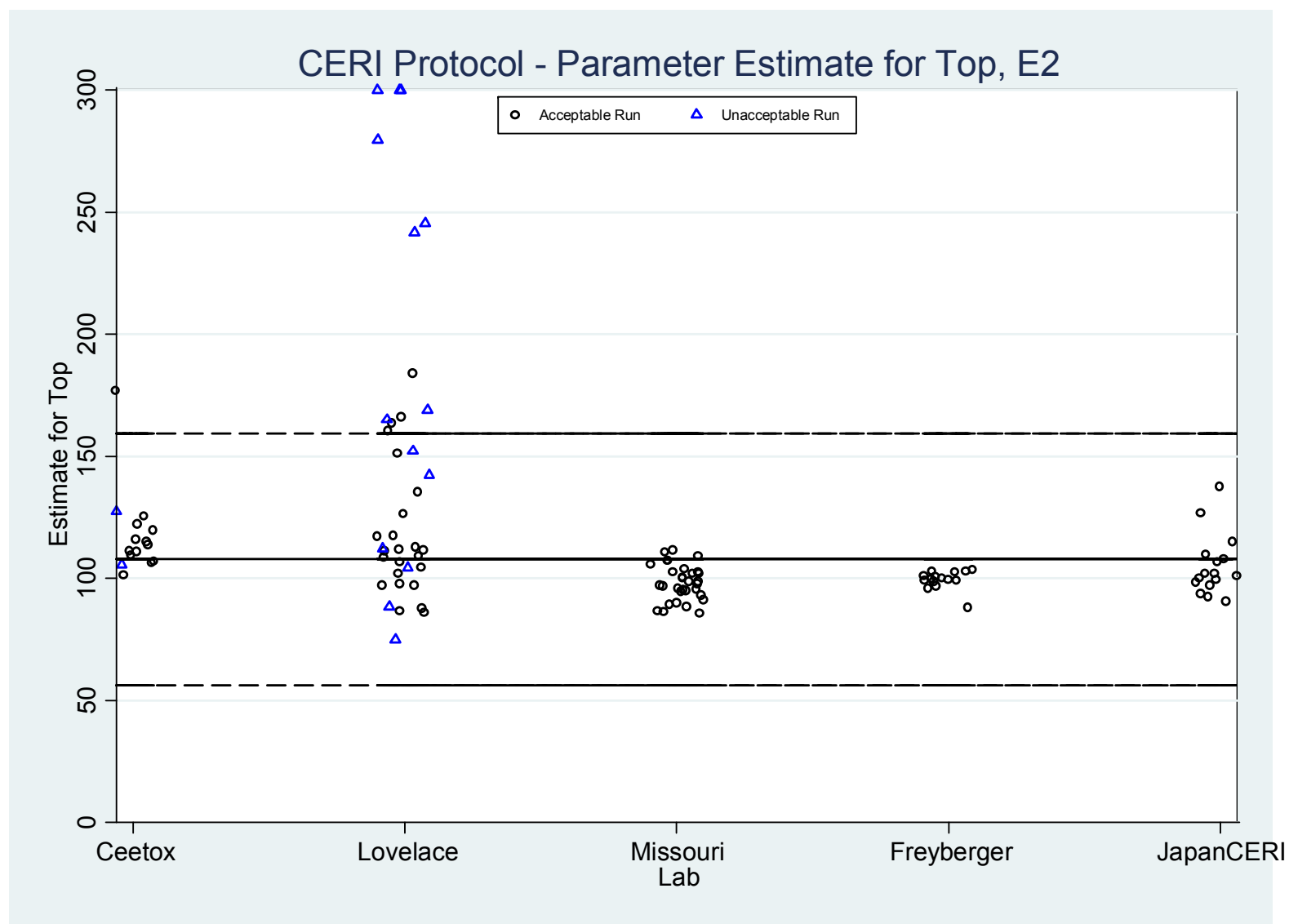


Figure 1. Parameter Estimates and Tolerance Intervals for Top for the Reference Chemical (E_2) for CERI Protocol. Estimates Above 300 were Represented by 300.

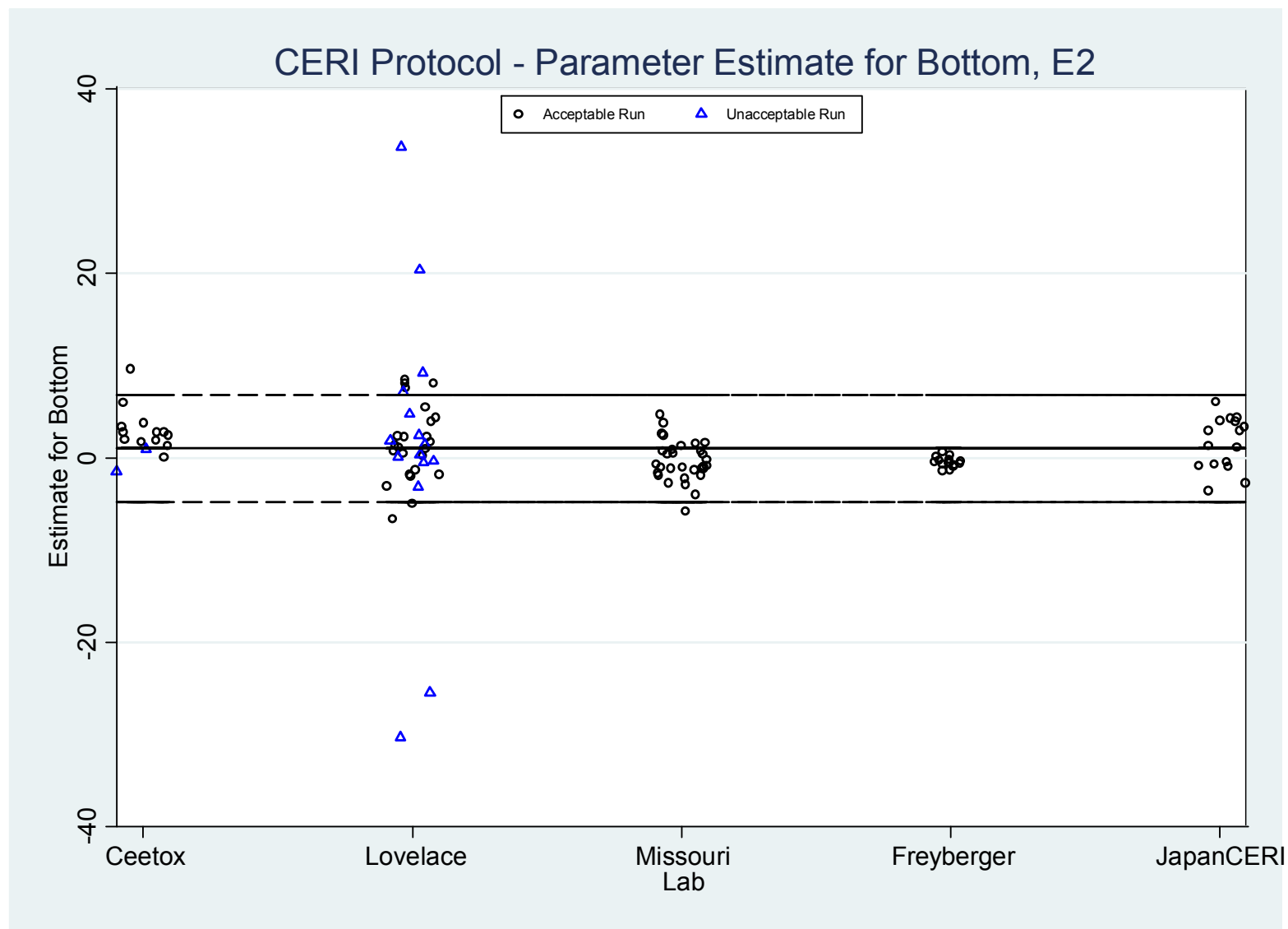


Figure 2. Parameter Estimates and Tolerance Intervals for Bottom for the Reference Chemical (E₂) for CERI Protocol.

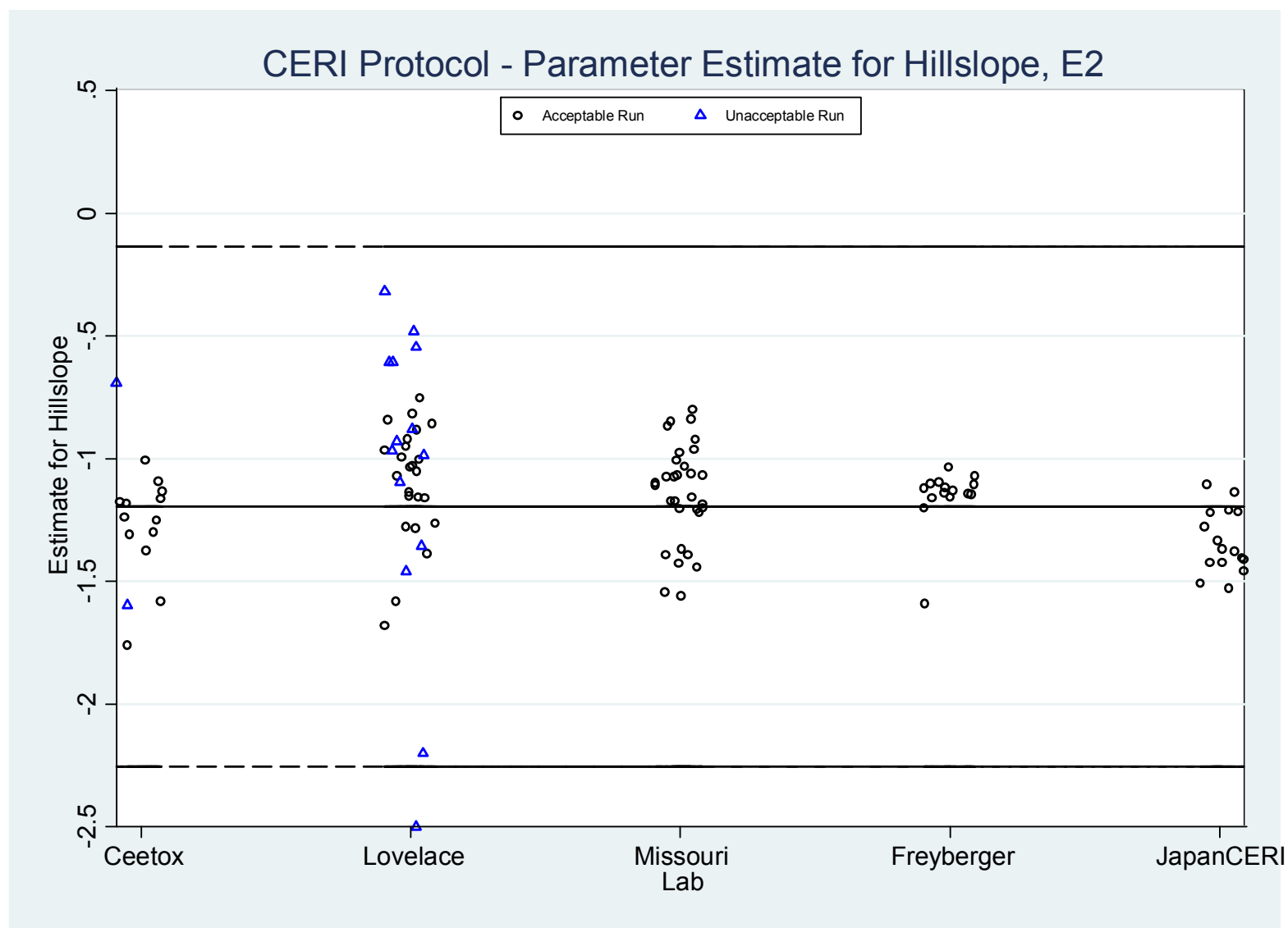


Figure 3. Parameter Estimates and Tolerance Intervals for Hillslope for the Reference Chemical (E2) for CERI Protocol. Estimates below -2.5 were Represented by -2.5.

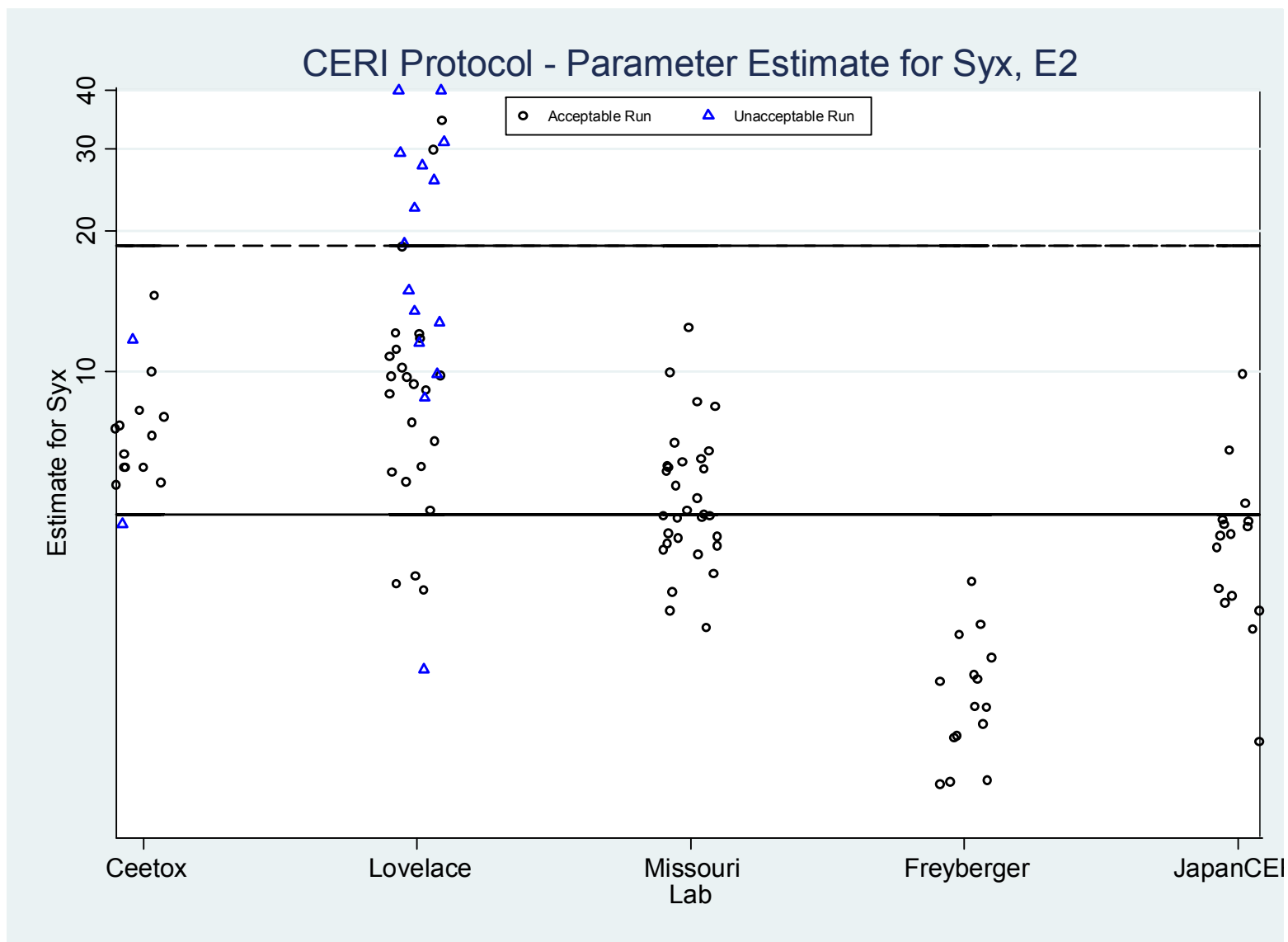


Figure 4. Parameter Estimates and Tolerance Intervals for Residual Standard Deviation (Syx) for the Reference Chemical (E₂) for CERI Protocol. Estimates Above 40 were Represented by 40.

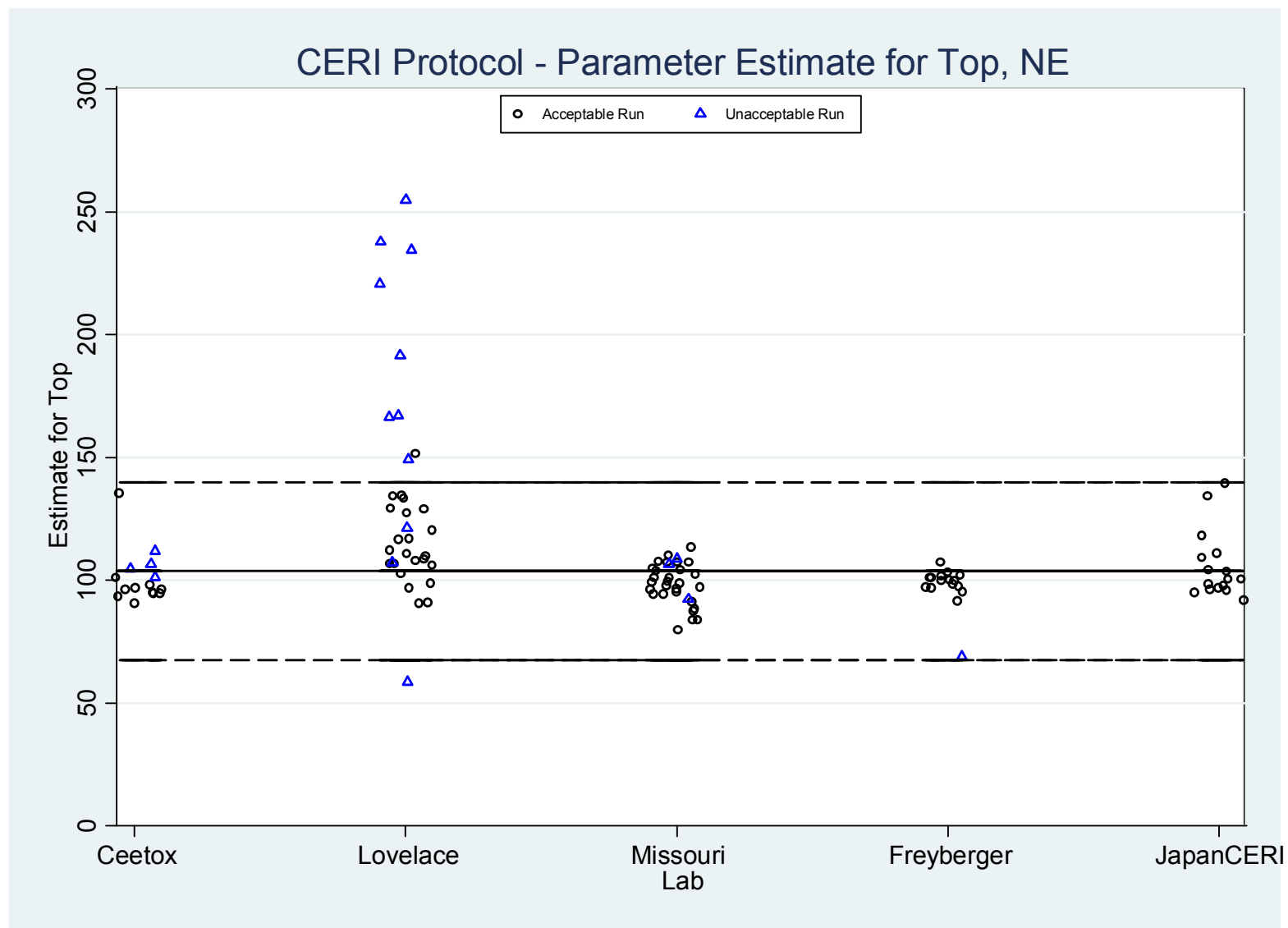


Figure 5. Parameter Estimates and Tolerance Intervals for Top for Weak Positive (NE) for CERI Protocol.

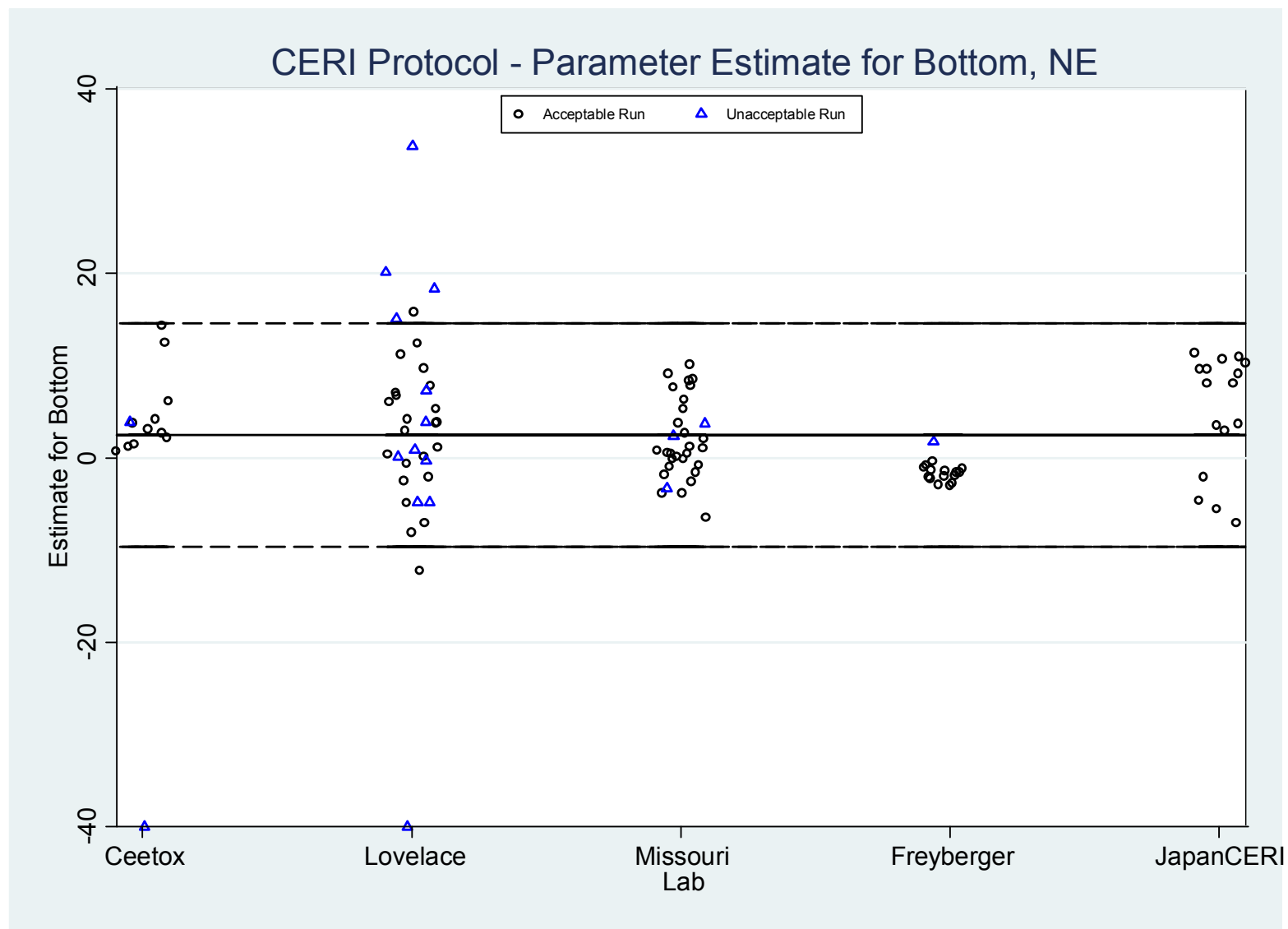


Figure 6. Parameter Estimates and Tolerance Intervals for Bottom for Weak Positive (NE) for CERI Protocol. Estimates Above -40 were Represented by -40.

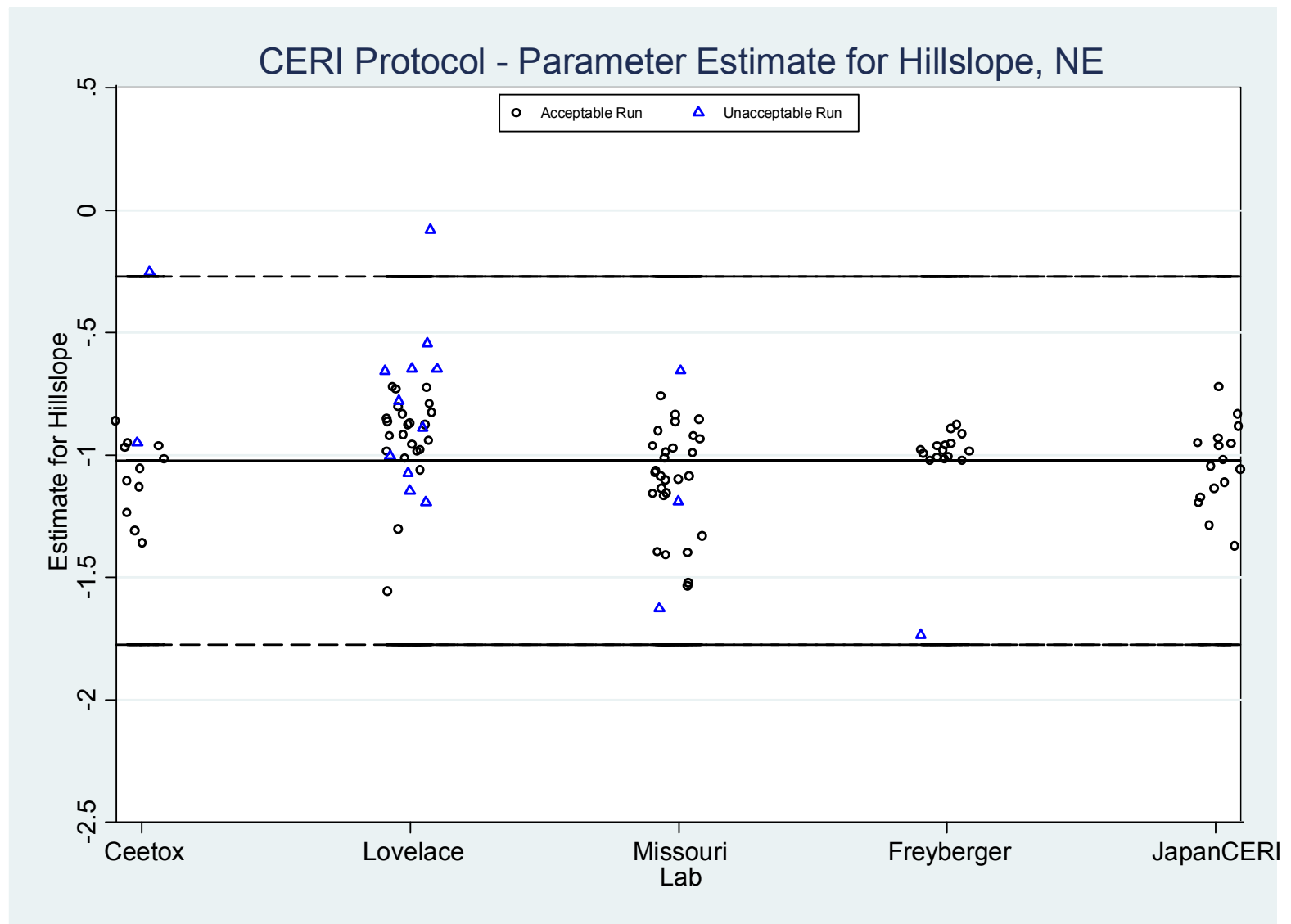


Figure 7. Parameter Estimates and Tolerance Intervals for Hill Slope for Weak Positive (NE) for CERI Protocol.

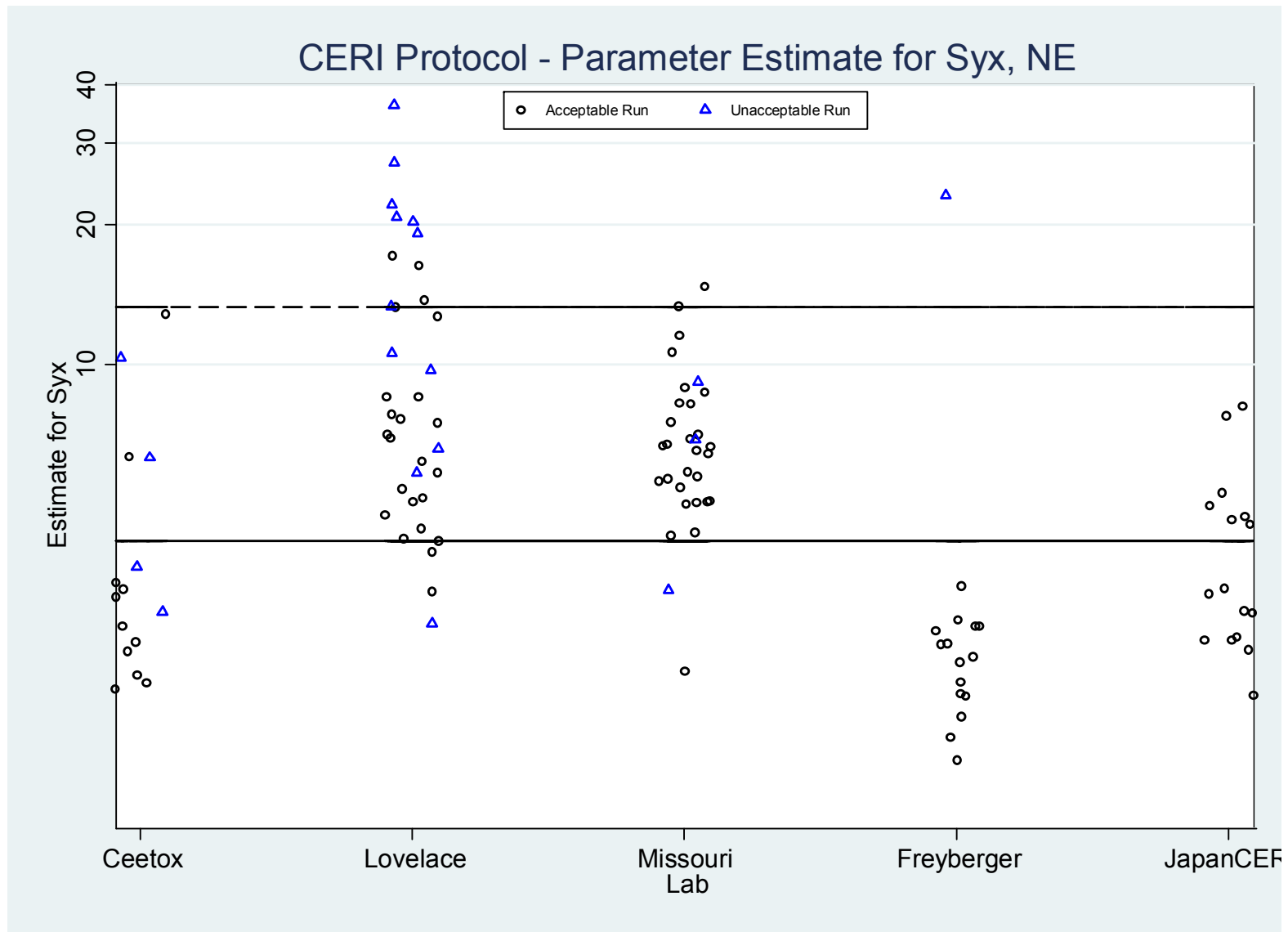


Figure 8. Parameter Estimates and Tolerance Intervals Residual Standard Deviation (Syx) for Weak Positive (NE) for CERI Protocol.

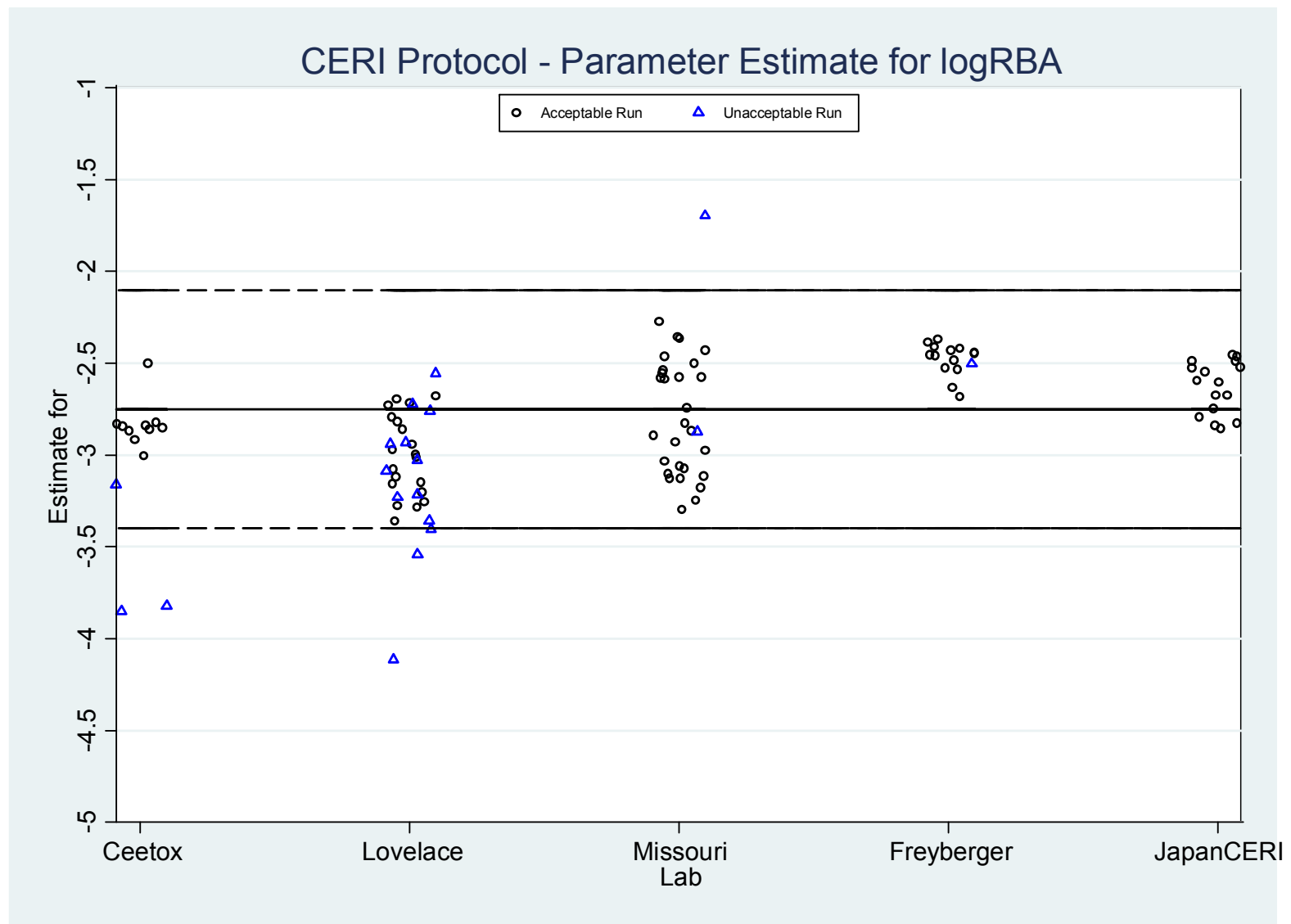


Figure 9. Parameter Estimates and Tolerance Intervals for $\text{Log}_{10}\text{RBA}$ for CERI Protocol.

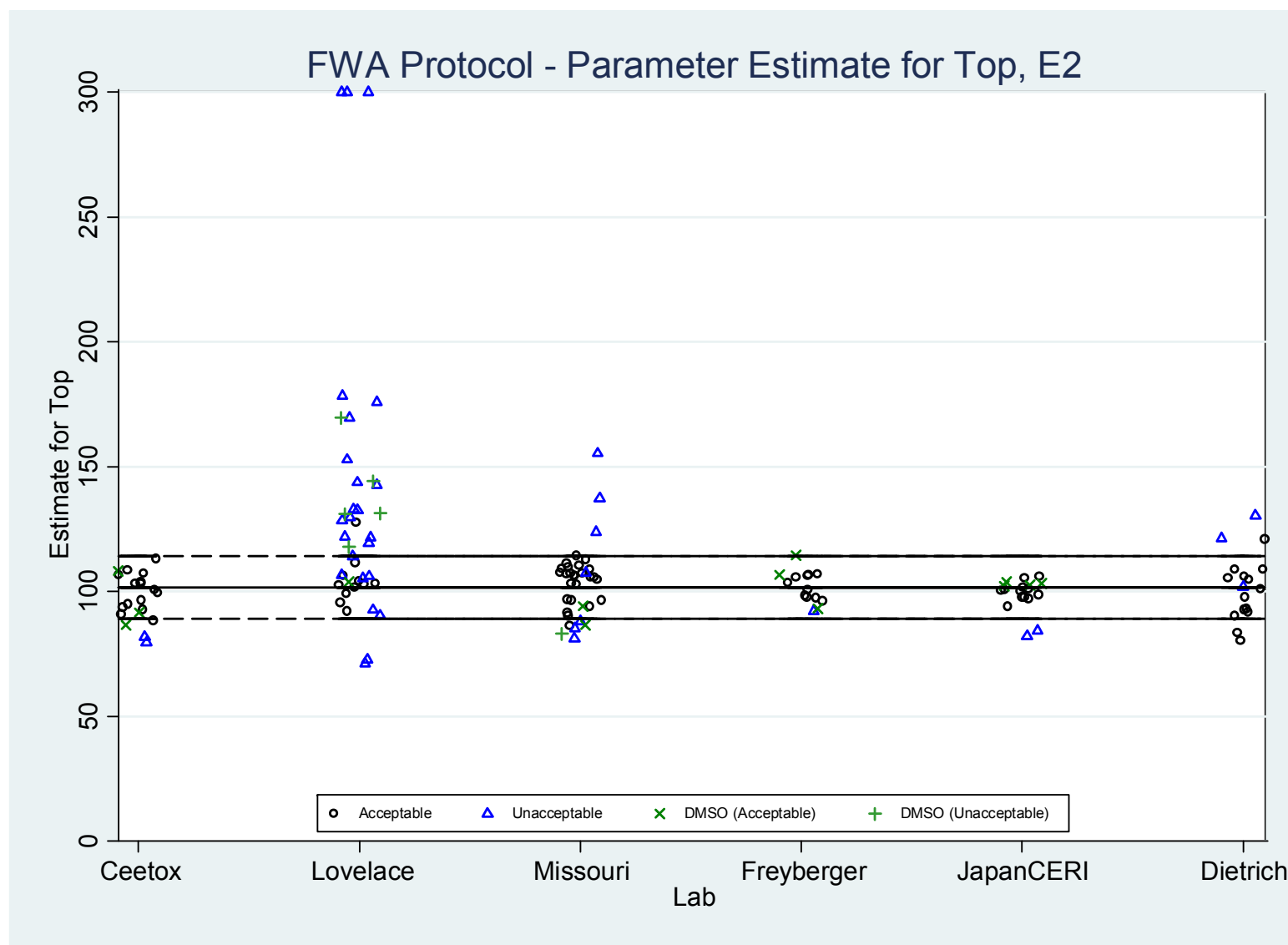


Figure 10.⁴ Parameter Estimates and Tolerance Intervals for Top for the Reference Chemical (E2) for FWA Protocol. Estimates Above 300 were Represented by 300.

⁴ DMSO runs were not included in the tolerance interval calculations in Figures 10 to 18.

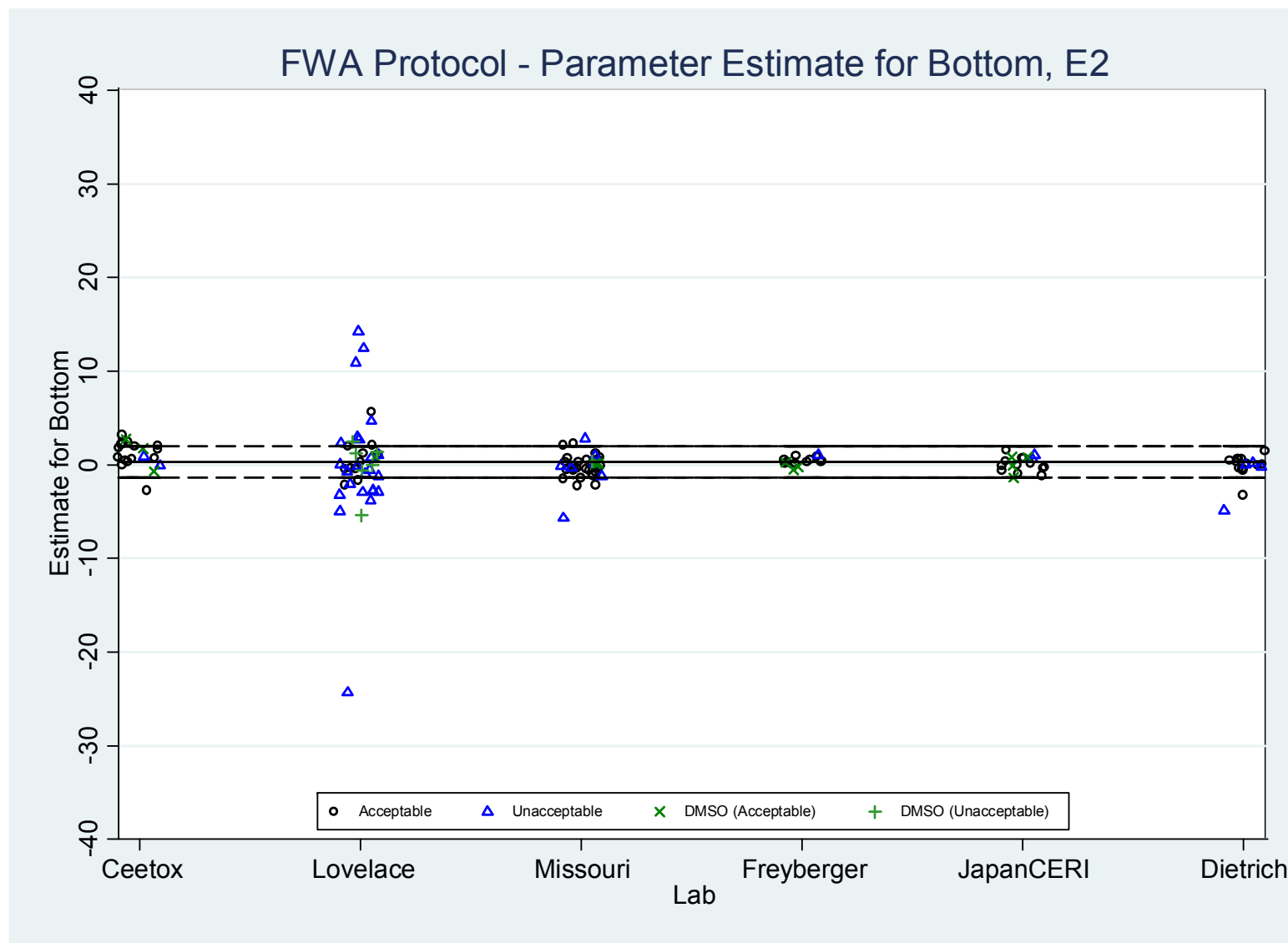


Figure 11. Parameter Estimates and Tolerance Intervals for Bottom for the Reference Chemical (E2) for FWA Protocol.

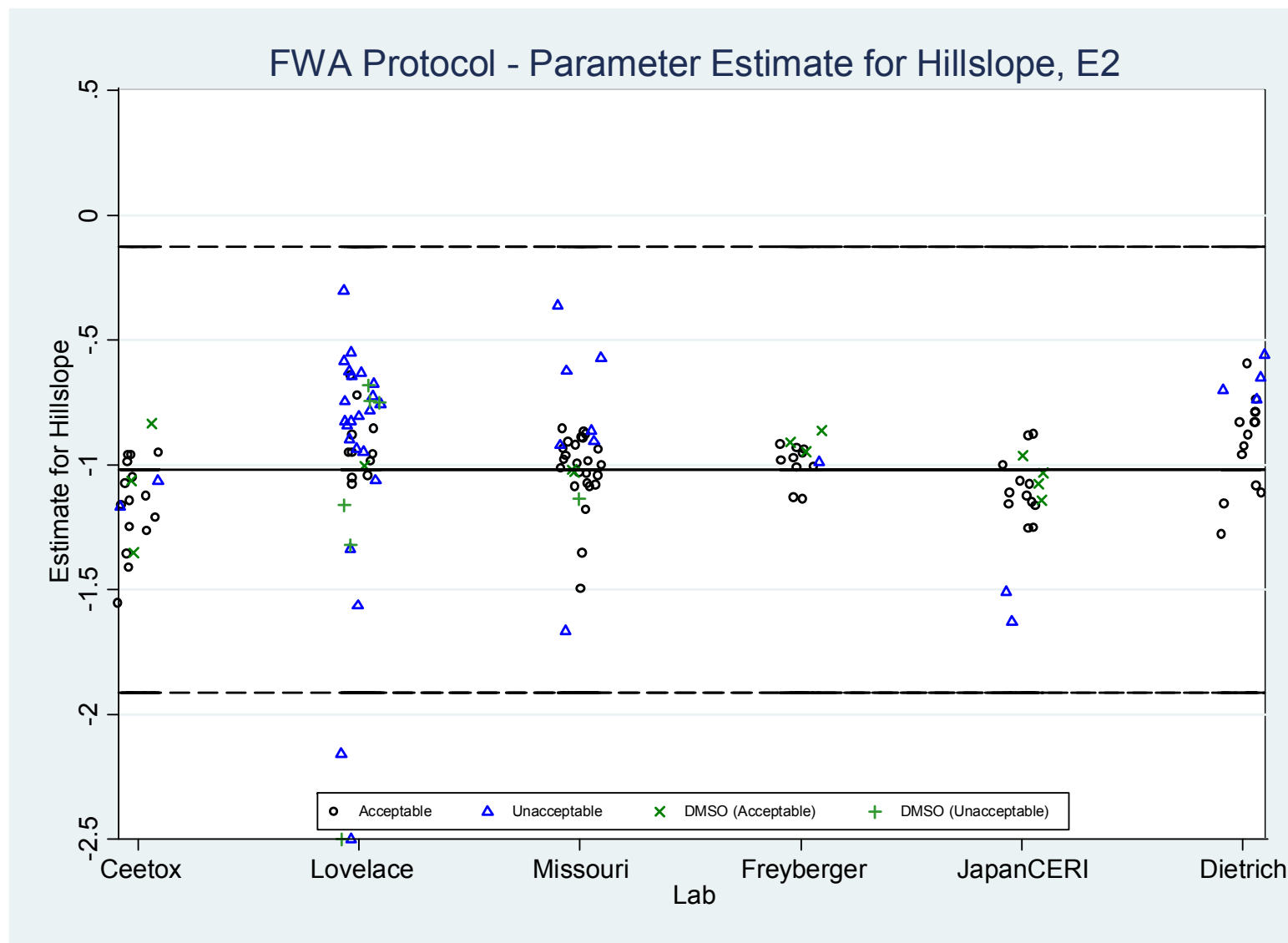


Figure 12. Parameter Estimates and Tolerance Intervals for Hill Slope for the Reference Chemical (E2) for FWA Protocol. Estimates below -2.5 were Represented by -2.5.

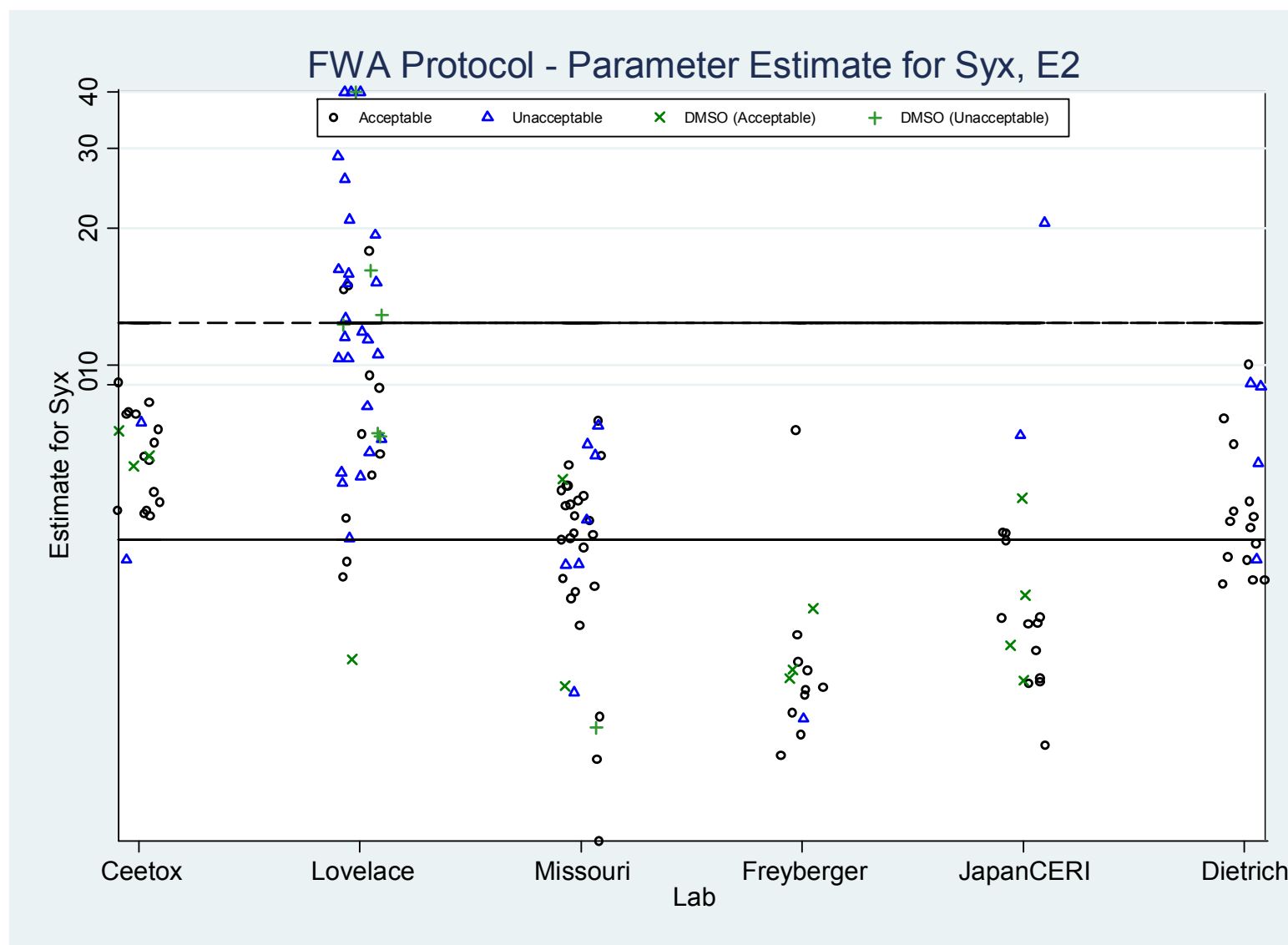


Figure 13. Parameter Estimates and Tolerance Intervals for Residual Standard Deviation (Syx) for the Reference Chemical (E₂) for FWA Protocol. Estimates Above 40 were Represented by 40.

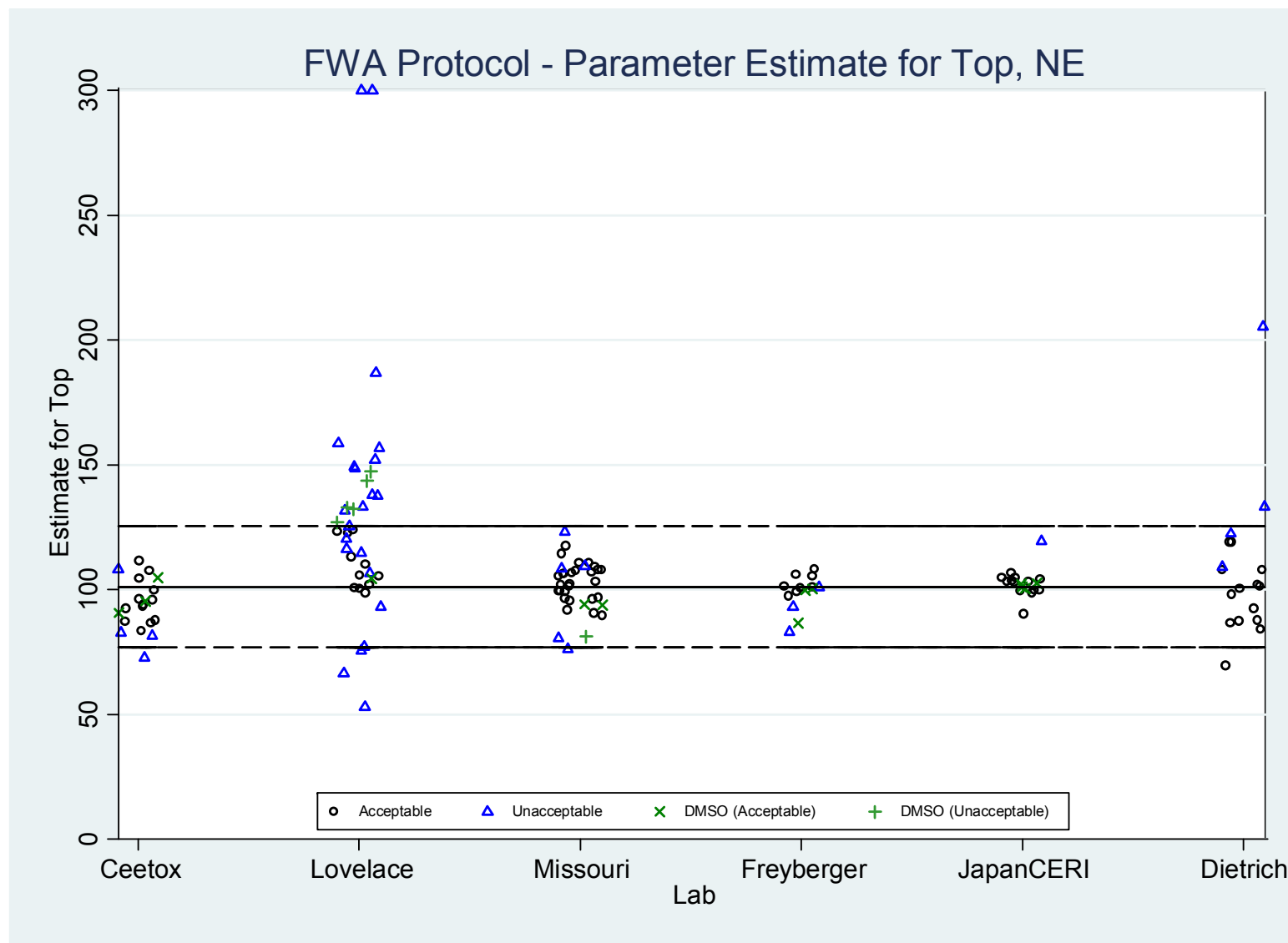


Figure 14. Parameter Estimates and Tolerance Intervals for Top for Weak Positive (NE) for FWA Protocol. Estimates Above 300 were Represented by 300.

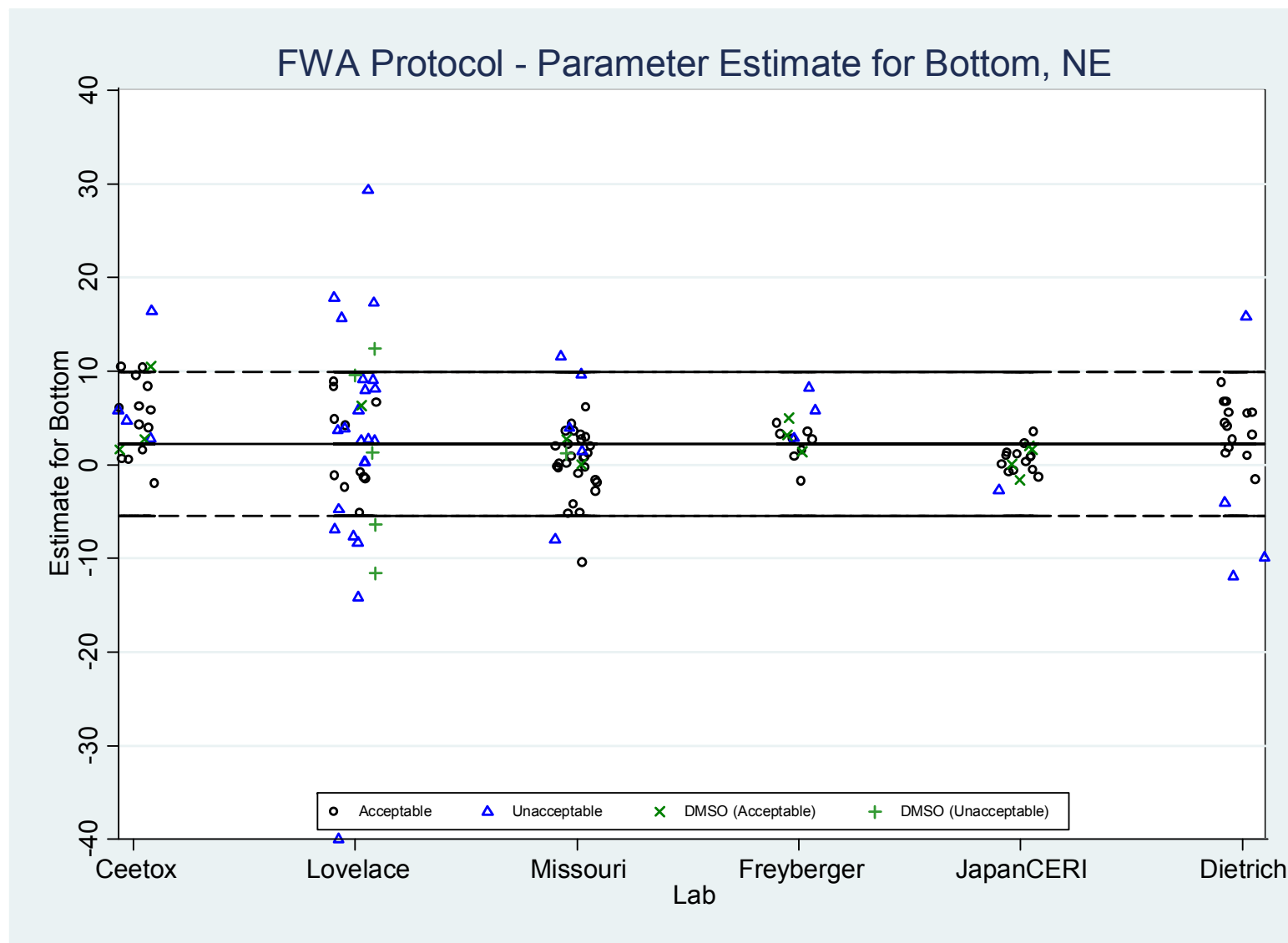


Figure 15. Parameter Estimates and Tolerance Intervals for Bottom for Weak Positive (NE) for FWA Protocol. Estimates Above -40 were Represented by -40.

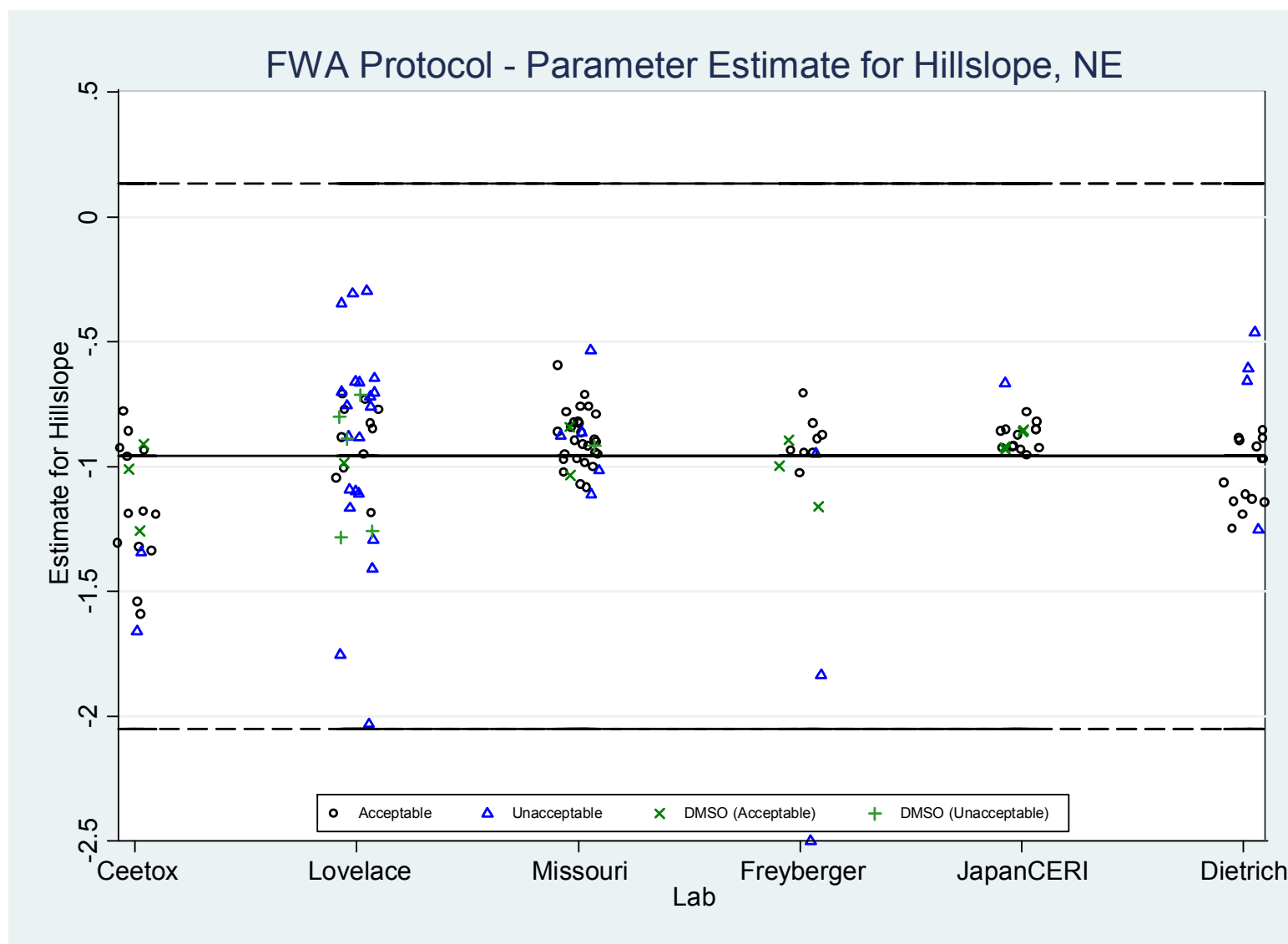


Figure 16. Parameter Estimates and Tolerance Intervals for Hill Slope for Weak Positive (NE) for FWA Protocol. Estimates below -2.5 were Represented by -2.5.

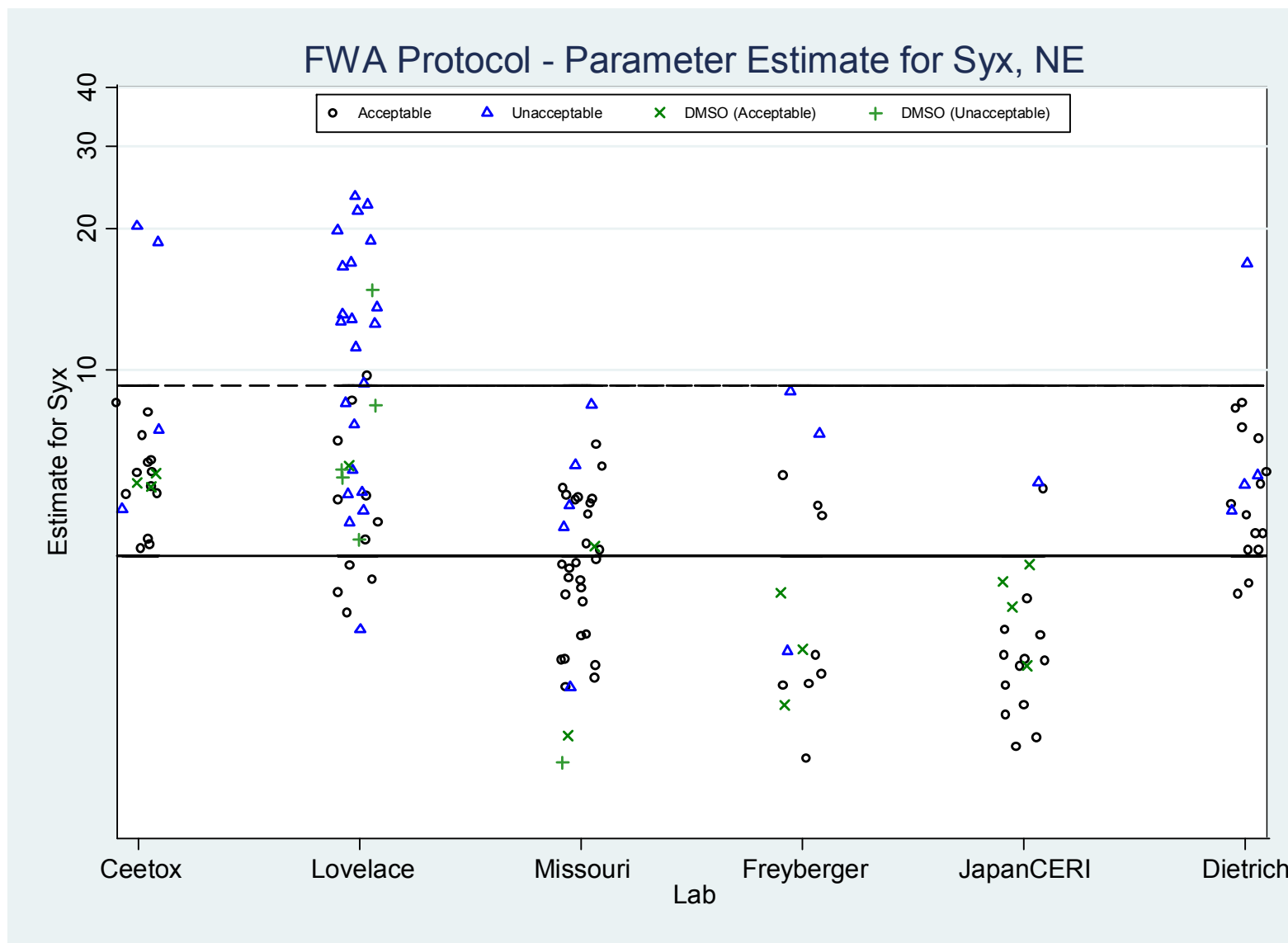


Figure 17. Parameter Estimates and Tolerance Intervals for Residual Standard Deviation (Syx) for Weak Positive (NE) for FWA Protocol.

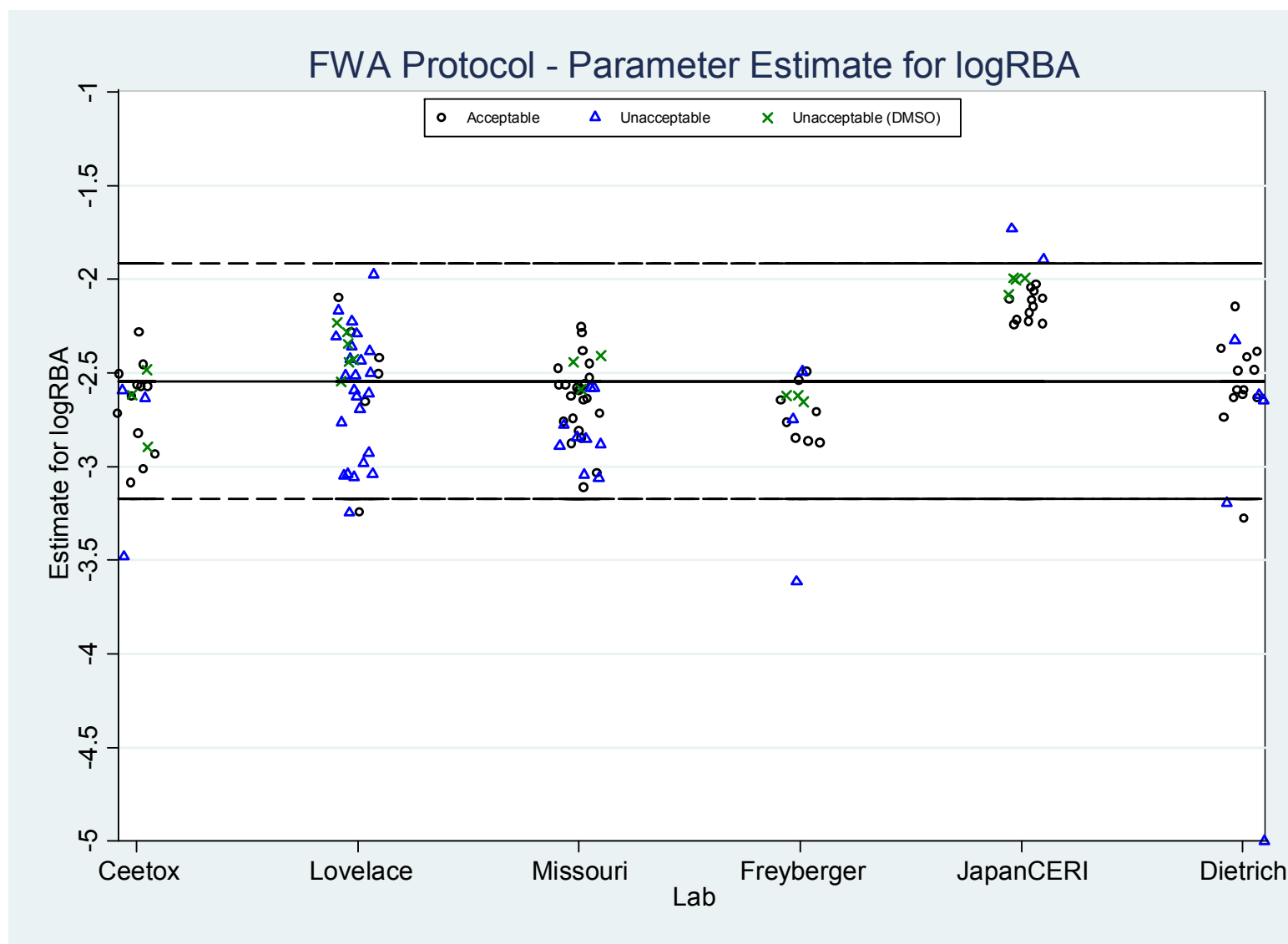


Figure 18. Parameter Estimates and Tolerance Intervals for Log₁₀RBA for FWA Protocol.

6.0 Classification of Test Compounds' Interaction with the Estrogen Receptor

In general, chemicals are thought to interact with the estrogen receptor only by binding at the ligand binding domain and thus the assays examined in this study are expected to distinguish binders from non-binders. However, because the nature of the interaction is not completely characterized by these assays, the terms “interaction” and “non-interaction” will be used, rather than “binding” and “non-binding.”

The classification of each of the 23 test chemicals and standard negative reference chemical DBP was based on a determination of the interaction classification within each test laboratory and then combining the interaction classifications across the test laboratories. The classifications were based on only those runs whose E₂ and NE datasets were both judged by EPA to be acceptable, including the acceptable DMSO runs (Appendix E). Classifications were made separately for the CERI assay and the FWA assay.

The results of the analysis are shown in Tables 11 and 12 for the CERI protocol and Tables 13 and 14 for the FWA protocol. Chemicals that were tested both blinded and unblinded are shown in separate lines. The blinded version is denoted with the suffix “_b”. (e.g. Cort and Cort_b). Standards that were tested as test chemicals (i.e., blinded) are denoted with the suffix “_TC”. (e.g. DBP_TC, E₂_TC, or NE_TC).

For each laboratory the individual runs of the test chemicals were designated as “interactive”, “equivocal”, “non-interactive”, or “non-testable” according to the characteristics of the binding curve fits. The criteria are given below.

- Non-Testable – There are no data points at or above concentration 10^{-6} and one of the two following conditions hold:
 - i. A binding curve can be fitted but the binding curve is not lower than 50% by concentration 10^{-6} .
 - ii. A binding curve cannot be fitted. The lowest unsmoothed average percent binding among the concentration groups in the data is above 50%.

A non-testable run corresponds to the situation when the chemical could not be put into solution at a high enough concentration to determine whether or not it interacts with the receptor.

- Interactive – A binding curve can be fitted. The lowest point on the response curve within the range of the data is less than 50%.
- Non-interactive – If a binding curve can be fitted the lowest point on the fitted response curve within the range of the data is above 75%. If a binding curve cannot be fitted the lowest unsmoothed average percent binding among the concentration groups in the data is above 75%.
- Equivocal – Any testable run that is neither an interactive nor a non-interactive is equivocal. The run might or might not have a fitted model.

Each test chemical in each of the EPA-acceptable test runs (i.e., the runs in which both the estradiol and norethynodrel standards were considered acceptable) (Appendix B, Table B-3) was classified as interactive, non-interactive, equivocal or non-testable according to the above criteria. The classifications for each run of each chemical are displayed in Appendix D, Table D-1. The table columns represent the assay protocol, test chemical, the test laboratory, the laboratory test run designation, the binding curve parameters (where they could be fit – otherwise missing or blank), the highest test chemical ($\log_{10}$) concentration in the test run, the lowest fitted point on the response curve and the point at the 10^{-6} (M) concentration (if the response curve could be fitted), two variables to indicate whether the lowest unsmoothed mean response among the concentration groups (if the response curve could not be fitted) are greater than 50% or 75% (“1” for above the thresholds, otherwise missing or blank), and then the binding category designation. The binding category designations were:

- Testable runs: 2 – interactive, 1 – equivocal, 0 – non-interactive
- Non-testable runs: missing

The classifications for each individual (testable) run (Appendix F) were combined across runs within laboratory and test chemical by an averaging rule. Namely for each test chemical within a laboratory the interaction category scores for the testable runs were averaged. The average score determined the overall binding category for that test chemical within that laboratory as follows:

Interactive: Average ≥ 1.5

Equivocal: $0.5 \leq \text{Average} < 1.5$

Non-interactive: Average < 0.5

The interaction classifications of test chemicals were combined across laboratories using two methods: a simple average approach and a weighted average approach. As a preliminary step, each chemical within a laboratory was assigned a score based on the classification determined above:

- 2 – interactive, 1 – equivocal, 0 – non-interactive

Then the scores for a chemical were averaged across laboratories, first without weights and then with weights based on the percent of acceptable runs among the test runs within the individual laboratory (See Tables 6 and 7 for the weights). The acceptable runs were defined as the test runs which are acceptable for both E₂ and NE. The simple average scores or the weighted average scores determined the overall binding category across laboratories for the test chemical as follows:

Interactive: Average ≥ 1.5

Equivocal: $0.5 \leq \text{Average} < 1.5$

Non-interactive: Average < 0.5

The interaction categorization by test chemical and laboratory, and the overall categorization by test chemical across laboratories are shown in Table 11 for the CERI protocol and Table 13 for the FWA protocol.

Tables 12 and 14 show the results broken out by subtask. Note that DBP was run as a standard in all of the subtasks (not blinded), and that BPA and OTES were also run in more than one subtask (Subtasks 3 and 4). While Tables 11 and 13 combine results across subtasks for these chemicals, Tables 12 and 14 break out their results by subtask.

Table 11. hrER α Competitive Binding Assay (CERI). Test Chemical Classifications Within and Across Laboratories.

Chemical^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Simple Average^d	Weighted by % of Runs with Acceptable E₂ and NE^e
Atr	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
BPA	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
BaA	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
ButylPar	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
Cort	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
Cort_b	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive
DBP	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
DBP-TC	Interactive	Interactive	Non-Interactive	Interactive	Non-Interactive	Equivocal	Equivocal
DDT	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
DES	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
DHT	Interactive	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive
Dex	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive
E ₂ -TC	Interactive	Equivocal	Equivocal	Interactive	Interactive	Interactive	Interactive
EE2	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
EE2_10xDilution		Interactive				Interactive	Interactive
EE2_b		Equivocal				Equivocal	Equivocal
ELactone	Interactive	Interactive	Equivocal	Interactive	Equivocal	Interactive	Interactive
Equol	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive

- Suffix “-b” means the chemical was blinded and was tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab: that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 11. (Continued.)

Chemical^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Simple Average^d	Weighted by % of Runs with Acceptable E₂ and NE^e
Gen	Interactive	Equivocal	Interactive	Equivocal	Interactive	Interactive	Interactive
Gen_b	Interactive		Equivocal			Interactive	Equivocal
HPTE	Interactive		Interactive			Interactive	Interactive
Heptylphenol	Interactive	Equivocal	Equivocal	Interactive	Equivocal	Equivocal	Equivocal
Hexestrol	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
Kepone	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
NE-TC	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
NPhenol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Nethdrone	Interactive		Interactive			Interactive	Interactive
OTES	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
Progesterone	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
Tamox	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive

- Suffix “-b” means the chemical was blinded and was tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab: that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 12. hrER α Competitive Binding Assay (CERI). Test Chemical Binding Classifications by Subtask Within and Across Laboratories.

SubTask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Simple Average ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st1	DBP	Non-Interactive	Equivocal	Non-Interactive		Non-Interactive	Non-Interactive	Non-Interactive
st12	DBP		Equivocal				Equivocal	Equivocal
	DBP-TC		Interactive				Interactive	Interactive
	E ₂ -TC		Equivocal				Equivocal	Equivocal
	EE2_b		Equivocal				Equivocal	Equivocal
st2	ButylPar	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
	Cort	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	DBP		Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	DDT	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
	DES	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	EE2	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
	EE2_10xDilution		Interactive				Interactive	Interactive
	Equol	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
	Gen	Interactive	Equivocal	Interactive	Equivocal	Interactive	Interactive	Interactive
	Hexestrol	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive
	NPhenol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive

- Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 12. (Continued.)

SubTask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERi	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st3	Atr	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	BPA	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	BaA	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	DBP	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	DBP-TC	Interactive	Equivocal	Non-Interactive	Interactive	Non-Interactive	Equivocal	Equivocal
	DHT	Interactive	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive
	E ₂ -TC	Interactive	Equivocal	Equivocal	Interactive	Interactive	Interactive	Interactive
	ELactone	Interactive	Interactive	Equivocal	Interactive	Equivocal	Interactive	Interactive
	Heptylphenol	Interactive	Equivocal	Equivocal	Interactive	Equivocal	Equivocal	Equivocal
	Kepone	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	NE-TC	Equivocal	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	OTES	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	Progesterone	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	Tamox	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	Zear	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive

- Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 12. (Continued.)

SubTask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st4	BPA	Interactive		Interactive			Interactive	Interactive
	Cort_b	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive
	DBP	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive
	Dex	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive
	Gen_b	Interactive		Equivocal			Interactive	Equivocal
	HPTE	Interactive		Interactive			Interactive	Interactive
	Nethdrone	Interactive		Interactive			Interactive	Interactive
	OTES	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive

- Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 13. hrER α Competitive Binding Assay (FWA). Test Chemical Binding Classifications Within and Across Laboratories.

Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
Atr	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive
BPA	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
BaA_DMSO	Equivocal		Non-Interactive		Non-Interactive		Non-Interactive	Non-Interactive
BaA_EtOH			Non-Interactive	Non-Interactive		Non-Interactive	Non-Interactive	Non-Interactive
ButylPar	Interactive	Interactive	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive
Cort	Non-Interactive	Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Equivocal	Equivocal	Non-Interactive
Cort_b	Non-Interactive		Non-Interactive			Non-Interactive	Non-Interactive	Non-Interactive
DBP	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
DBP-TC	Equivocal	Interactive	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
DDT	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
DES	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
DHT	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Dex	Non-Interactive		Non-Interactive			Equivocal	Non-Interactive	Non-Interactive
E ₂ -TC	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive

- Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 13. (Continued.)

Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERi	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
EE2	Interactive	Interactive	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive
EE2_b		Interactive					Interactive	Interactive
ELactone	Interactive		Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Equol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Gen	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
GenW			Interactive				Interactive	Interactive
Gen_b	Interactive		Interactive				Interactive	Interactive
HPTE	Interactive		Interactive			Interactive	Interactive	Interactive
Heptylphenol	Interactive	Interactive	Non-Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Hexestrol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Kepone	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
NE-TC	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
NPhenol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Nethdrone	Interactive		Interactive			Interactive	Interactive	Interactive
OTES	Non-Interactive		Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
Progesterone	Equivocal	Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Equivocal	Non-Interactive
Tamox	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
Zear	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive

- Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.
- Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.
- 23 test chemicals and 3 standards (E₂, NE, and DBP)
- Simple averages were calculated across laboratories.
- A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 14. hrER α Competitive Binding Assay (FWA). Test Chemical Binding Classifications by Subtask Within and Across Laboratories.

Subtask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERl	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st1	DBP	Equivocal		Non-Interactive		Non-Interactive	Equivocal	Equivocal	Non-Interactive
st12	Atr		Non-Interactive					Non-Interactive	Non-Interactive
	DBP		Non-Interactive					Non-Interactive	Non-Interactive
	DBP-TC		Interactive					Interactive	Interactive
	E ₂ -TC		Interactive					Interactive	Interactive
	EE2_b		Interactive					Interactive	Interactive
	Heptylphenol		Interactive					Interactive	Interactive
	Kepone		Interactive					Interactive	Interactive
	Progesterone		Interactive					Interactive	Interactive

a. Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.

b. Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.

c. 23 test chemicals and 3 standards (E₂, NE, and DBP)

d. Simple averages were calculated across laboratories.

e. A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 14. (Continued.)

Subtask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st2	ButylPar	Interactive	Interactive	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive
	Cort	Non-Interactive	Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Equivocal	Equivocal	Non-Interactive
	DBP	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	DDT	Interactive	Interactive	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive
	DES	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	E ₂ TC	Equivocal						Equivocal	Equivocal
	EE2	Interactive	Interactive	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive
	Equol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	Gen	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	GenW			Interactive				Interactive	Interactive
	Hexestrol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	NPhenol	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive

a. Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.

b. Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.

c. 23 test chemicals and 3 standards (E₂, NE, and DBP)

d. Simple averages were calculated across laboratories.

e. A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 14. (Continued.)

Subtask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st3	Atr	Non-Interactive		Non-Interactive	Non-Interactive	Non-Interactive	Equivocal	Non-Interactive	Non-Interactive
	BPA	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	BaA_DMSO	Equivocal		Non-Interactive		Non-Interactive		Non-Interactive	Non-Interactive
	BaA_EtOH			Non-Interactive	Non-Interactive		Non-Interactive	Non-Interactive	Non-Interactive
	ButylPar						Interactive	Interactive	Interactive
	Cort_b						Non-Interactive	Non-Interactive	Non-Interactive
	DBP	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	DBP-TC	Equivocal		Equivocal	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
	DDT						Interactive	Interactive	Interactive
	DES						Interactive	Interactive	Interactive
	DHT	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	Dex						Equivocal	Equivocal	Equivocal

a. Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.

b. Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.

c. 23 test chemicals and 3 standards (E₂, NE, and DBP)

d. Simple averages were calculated across laboratories.

e. A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 14. (Continued.)

Subtask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st3	E ₂ -TC	Interactive	Interactive	Interactive	Equivocal	Interactive	Interactive	Interactive	Interactive
	EE2						Interactive	Interactive	Interactive
	ELactone	Interactive		Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	Equol						Interactive	Interactive	Interactive
	Gen						Interactive	Interactive	Interactive
	HPTE						Interactive	Interactive	Interactive
	Heptylphenol	Interactive	Interactive	Non-Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	Hexestrol						Interactive	Interactive	Interactive
	Kepone	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	NE-TC	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	NPhenol						Interactive	Interactive	Interactive
	Nethdrone						Interactive	Interactive	Interactive
	OTES	Equivocal		Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive
	Progesterone	Equivocal	Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Non-Interactive	Equivocal	Non-Interactive
	Tamox	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive
	Zear	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive	Interactive

a. Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.

b. Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.

c. 23 test chemicals and 3 standards (E₂, NE, and DBP)

d. Simple averages were calculated across laboratories.

e. A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

Table 14. (Continued.)

Subtask	Chemical ^{a,b,c}	CeeTox	Lovelace	Missouri	Freyberger	Japan CERI	Dietrich	Simple Averaged ^d	Weighted by % of Runs with Acceptable E ₂ and NE ^e
st4	BPA	Interactive		Interactive				Interactive	Interactive
	Cort_b	Non-Interactive		Non-Interactive				Non-Interactive	Non-Interactive
	DBP	Non-Interactive		Non-Interactive				Non-Interactive	Non-Interactive
	Dex	Non-Interactive		Non-Interactive				Non-Interactive	Non-Interactive
	Gen_b	Interactive		Interactive				Interactive	Interactive
	HPTE	Interactive		Interactive				Interactive	Interactive
	Nethdrone	Interactive		Interactive				Interactive	Interactive
	OTES	Non-Interactive		Non-Interactive				Non-Interactive	Non-Interactive

f. Suffix “-b” means the chemical are blinded and were tested in Subtasks 3 or 4.

g. Suffix “-TC” means the standard chemical (E₂, NE or DBP) was tested as if it were a test chemical.

h. 23 test chemicals and 3 standards (E₂, NE, and DBP)

i. Simple averages were calculated across laboratories.

j. A lab’s scores were weighted by the % of all runs at that lab that were acceptable for both E₂ and NE compared to the total number of runs reported by that lab, before averaging across labs

7.0 Additional Aspects of the Analysis

The interaction classification in the present analysis was determined using the acceptable runs, which were determined by the experts at EPA using the best sciences adjustment. An alternative approach could have been based on the tolerance intervals. Runs designated as “acceptable runs” for determining interaction classification would have been those for which parameter estimates for the run were within the corresponding tolerance intervals for all parameters and for both E_2 and NE.

8.0 References

Battelle (2011), *Analysis of Saturation Binding Data from Six Laboratories for the Human Recombinant ER alpha (hrER) Binding Assay Validation*. Technical Report to EPA Endocrine Disruptor Screening Program.

Motulsky H., Christopoulos, A. (2003), *Fitting models to biological data using linear and nonlinear regression. A practical guide to curve fitting*. 2003, GraphPad Software Inc., San Diego, CA.

StataCorp. (2009), *STATA: Release 11, Statistical Software*, College Station, TX: StataCorp LP.

Neter, J., Kutner, M., Nachtsheim, C. and Wasserman, W. (1996). *Applied Linear Statistical Models*, Fourth Edition, Chicago: Irwin.

Appendix A. Chemicals Codes and Data Matching Information

Appendix A. Chemicals Codes and Data Matching Information

In Table A-1, “√” indicates that the chemicals were uncoded. A letter or a numerical number is the code for the coded chemicals. Blank means that the chemical were not tested. In subtask 3, the Freyberger has different codes for CERI and FWA protocols. The number following the chemical name just distinguishes one blinded instance of the same chemical from another instance.

Table A-1	hrER validation chemicals: Abbreviations and decodes
Table A-2	Organization of Test Chemicals into Test Run Data Templates for CERI Protocol
Table A-3	Organization of Test Chemicals into Test Run Data Templates for FWA Protocol

Table A-1. hrER validation chemicals: Abbreviations and decodes

Chemical	Abbreviation	Ceetox	Lovelace	Missouri	Freyberger	JapanCERI	Dietrich (FWA)
Subtask 1							
17 β -Estradiol	E ₂	√	√	√		√	√
Norethynodrel	NE	√	√	√		√	√
Dibutylphthalate	DBP	√	√	√		√	√
Subtask 2							
17 β -Estradiol	E ₂	√	√	√	√	√	√
Norethynodrel	NE	√	√	√	√	√	√
Dibutylphthalate	DBP	√	√	√	√	√	√
Butylparaben	ButylPar	√	√	√	√	√	R
Corticosterone	Cort	√	√	√	√	√	A
Equol	Equol	√	√	√	√	√	X
Hexestrol	Hexestrol	√	√	√	√	√	D
Nonylphenol	NPhenol	√	√	√	√	√	K
DDT	DDT	√	√	√	√	√	W
DES	DES	√	√	√	√	√	C
17 α -Ethinylestradiol	EE2	√	√	√	√	√	Y
Genistein	Gen	√	√	√	√	√	L
Subtask 3							
					FWA/CERI		
17 β -Estradiol	E ₂	1	1	1	P/A	K	H
Norethynodrel	NE	2	2	2	A/P	L	M
Dibutylphthalate	DBP	3	3	3	H/G	G	Q
Zearalenone	Zear	4	4	4	G/H	B	I
Tamoxifen	Tamox	5	5	5	N/B	D	U
5 α -Dihydrotestosterone	DHT	6	6	6	F/J	H	G
Bisphenol A	BPA	7	7	7	M/C	E	T
4-n-heptylphenol	Heptylphenol	8	8	8	E/K	I	F
Kepone	Kepone	9	9	9	L/D	A	V

Chemical	Abbreviation	Ceetox	Lovelace	Missouri	Freyberger	JapanCERI	Dietrich (FWA)
Benz(a)anthracene	BaA	10	10	10	D/L	F	B
Enterolactone	ELactone	11	11	11	K/E	J	J
Progesterone	Progesterone	12	12	12	C/M	C	P
Octyltriethoxysilane	OTES	13	13	13	J/F	N	S
Atrazine	Atr	14	14	14	B/N	M	N
Subtask 4							
Corticosterone-1	Cort-1	15		15			
Dexamethasone-1	Dex-1	16		16			Z
Norethindrone-1	Nethdrone-1	17		17			O
HPTE-1	HPTE-1	18		18			E
Genistein-1	Gen-1	19		19			
Bisphenol A-1	BPA-1	20		20			
Octyltriethoxysilane-1	OTES-1	21		21			
Norethindrone-2	Nethdrone-2	22		22			
Bisphenol A-2	BPA-2	23		23			
Dexamethasone-2	Dex-2	24		24			
Norethindrone-3	Nethdrone-3	25		25			
Corticosterone-2	Cort-2	26		26			
HPTE-2	HPTE-2	27		27			
Octyltriethoxysilane-2	OTES-2	28		28			
Norethindrone-4	Nethdrone-4	29		29			
Genistein-2	Gen-2	30		30			
Subtask 12							
17 β -Estradiol	E2		A				
17 α -Ethinyl estradiol	EE2		B				
Dibutylphthalate	DBP		C				

Table A-2 Organization of Test Chemicals into Test Run Data Templates for CERI Protocol (Chemicals Ordered as Displayed in the Output Data Sheets)**Ceetox, CERI**

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
hrER (CERI) data entry comp subtask I, run 1 20090207, v25g.xls	hrER (CERI) data entry comp subtask I, run 1 20090207, v25k.xls	20090207	--,--,--	--,--,--	--,--,--	
hrER (CERI) data entry comp subtask I, run 2 20090208, v25g.xls	hrER (CERI) data entry comp subtask I, run 2 20090208, v25k.xls	20090208	--,--,--	--,--,--	--,--,--	
hrER (CERI) data entry comp subtask I, run 3 20090211, v25g.xls	hrER (CERI) data entry comp subtask I, run 3 20090211, v25k.xls	20090211	--,--,--	--,--,--	--,--,--	
Subtask II						
hrER (CERI) data entry comp subtask II, run 1 20090215, v25i.xls	hrER (CERI) data entry comp subtask II, run 1 20090215 v25k.xls	20090215	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (CERI) data entry comp subtask II, run 2 20090218, v25i.xls	hrER (CERI) data entry comp subtask II, run 2 20090218, v25k.xls	20090218	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (CERI) data entry comp subtask II, run 3 20090221, v25i.xls	hrER (CERI) data entry comp subtask II, run 3 20090221, v25k.xls	20090221	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
Subtask III						
hrER (CERI) data entry comp subtask III, run 1 20090228 A, v25i.xls	hrER (CERI) data entry comp subtask III, run 1 20090228 A, v25k.xls	20090228A	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, Heptylphenol	Kepone, BaA, ELactone, Progesterone	Code
hrER (CERI) data entry comp subtask III, run 1 20090228 B, v25g.xls	hrER (CERI) data entry comp subtask III, run 1 20090228 B, v25k.xls	20090228B	E2, Nethdrel, DBP, Unknown4	BaA, Unknown6, ELactone, Progesterone	OTES, Atr, Unknown11, Unknown12	PRISM
hrER (CERI) data entry comp subtask III, run 2 20090305 A, v25i.xls	ER (CERI) data entry comp subtask III, run 2 20090305 A, v25k.xls	20090305A	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, Heptylphenol	Kepone, BaA, ELactone, Progesterone	code

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (CERI) data entry comp subtask III, run 2 20090305 B, v25g.xls	hrER (CERI) data entry comp subtask III, run 2 20090305 B, v25k.xls	20090305B	Unknown1, OTES, Atr, Unknown 4	--, --, --, --	--, --, --, Unknown12	PRISM
hrER (CERI) data entry comp subtask III, run 3 20090310 A, v25i.xls	hrER (CERI) data entry comp subtask III, run 3 20090310 A, v25k.xls	20090310A	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, Heptylphenol	Kepone, BaA, ELactone, Progesterone	code
hrER (CERI) data entry comp subtask III, run 3 20090310 B, v25g.xls	hrER (CERI) data entry comp subtask III, run 3 20090310 B, v25k.xls	20090310B	Unknown1, OTES, Atr, Unknown 4	--, --, --, --	--, --, --, Unknown12	PRISM
hrER (CERI) data entry comp subtask III, run 4 20090401 A, v25i.xls	hrER (CERI) data entry comp subtask III, run 4 20090401 A, v25k.xls	20090401A	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, Heptylphenol	Kepone, BaA, ELactone, Progesterone	code
hrER (CERI) data entry comp subtask III, run 4 20090401 B, v25h.xls	hrER (CERI) data entry comp subtask III, run 4 20090401 B, v25k.xls	20090401B	Unknown1, OTES, Atr, Unknown 4	--, --, --, --	--, --, --, --	PRISM
hrER (CERI) data entry comp subtask III, run 5 20090415, v25h.xls	hrER (CERI) data entry comp subtask III, run 5 20090415, v25k.xls	20090415	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, Heptylphenol	--, --, --, --	code
Subtask IV						
hrER (CERI) data entry comp subtask IV, run 1 20090903 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 1 20090903 A, v25k.xls	20090903A	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	BPA-2, Dex-2, Nethdrone-3, Cort-2	code
hrER (CERI) data entry comp subtask IV, run 1 20090903 B, v25i.xls	hrER (CERI) data entry comp subtask IV, run 1 20090903 B, v25k.xls	20090903B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	code
hrER (CERI) data entry comp subtask IV, run 2 20090905 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 2 20090905 A, v25k.xls	20090905A	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	BPA-2, Dex-2, Nethdrone-3, Cort-2	code
hrER (CERI) data entry comp subtask IV, run 2 20090905 B, v25i.xls	hrER (CERI) data entry comp subtask IV, run 2 20090905 B, v25k.xls	20090905B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	code
hrER (CERI) data entry comp subtask IV, run 3 20090907 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 3 20090907 A, v25k.xls	20090907A	Cort-1, Dex-1, Nethdrone-1,	Gen-1, BPA-1, OTES-1,	BPA-2, Dex-2, Nethdrone-3,	code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
v25i.xls			HPTE-1	Nethdrone-2	Cort-2	
hrER (CERl) data entry comp subtask IV, run 3 20090907 B, v25i.xls	hrER (CERl) data entry comp subtask IV, run 3 20090907 B, v25k.xls	20090907B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	code
hrER (CERl) data entry comp subtask IV, run 4 20090930 A, v25i.xls	hrER (CERl) data entry comp subtask IV, run 4 20090930 A, v25k.xls	20090930A	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	BPA-2, Dex-2, Nethdrone-3, Cort-2	code
hrER (CERl) data entry comp subtask IV, run 4 2009030 B, v25i.xls	hrER (CERl) data entry comp subtask IV, run 4 2009030 B, v25k.xls	20090930B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	code

-- Though there was the label "Unknown#" or "Code #", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Lovelace, CERl

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask 1						
hrER (CERl)-comp_06-Jan-09-v25f.xls	hrER (CERl)-comp_06-Jan-09-v25k.xls	1/6/2009	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERl)-comp_08-Jan-09-v25f.xls	hrER (CERl)-comp_08-Jan-09-v25k.xls	1/8/2009	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERl)-comp_13-Jan-09-v25f.xls	hrER (CERl)-comp_13-Jan-09-v25k.xls	1/13/2009	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERl)-comp_16-Jan-09-v25f.xls	hrER (CERl)-comp_16-Jan-09-v25k.xls	1/16/2009	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERl)-comp_31-Dec-08-v25f.xls	hrER (CERl)-comp_31-Dec-08, v25k.xls	12/31/2008	--, --, --, --	--, --, --, --	--, --, --, --	
Subtask 2						
hrER (CERl)-compST2_27-Feb-09-v25f.xls	hrER (CERl)-compST2_27-Feb-09, v25k.xls	2/27/2009	17aEE, BP, DES, mH	Gen, 4-NP, DDT, Cort	Eq, --, --, --	Lab
hrER (CERl)-compST2_05-Mar-09-v25f.xls	hrER (CERl)-compST2_05-Mar-09, v25k.xls	3/6/2009	17aEE, BP, DES, mH	Gen, 4-NP, DDT, Cort	Eq, --, --, --	Lab
hrER(CERl)comp_27-Mar-09-v25h.xls	hrER(CERl)comp_27-Mar-09, v25k.xls	3/27/2009	17aEE(--), BP(--), DES(--), mH(--)	Gen, 4-NP, DDT(--), Cort	Eq(--), --, --, --	Lab
hrER (CERl)-compST2_04-May-09-v25i.xls	hrER (CERl)-compST2_04-May-09-v25k.xls	5/4/2009	17aEE, DES, mH, DDT(--)	Cort(--), Eq, --, --	--, --, --, --	Lab
hrER (CERl)-compST2_05-May-09-v25i.xls	hrER (CERl)-compST2_05-May-09-v25k.xls	5/5/2009	17aEE, DES, mH, DDT	Cort, Eq, --, --	--, --, --, --	Lab
hrER (CERl)-compST2_06-May-09-v25i.xls	hrER (CERl)-compST2_06-May-09-v25k.xls	5/6/2009	17aEE, DES, mH, DDT	Cort, Eq, --, --	--, --, --, --	Lab
hrER (CERl)-compST2_07-May-09-v25i.xls	hrER (CERl)-compST2_07-May-09-v25k.xls	5/7/2009	BP, mH, Gen, DDT	Cort, Eq, --, --	--, --, --, --	Lab
hrER (CERl)-compST2_08-May-09-v25i.xls	hrER (CERl)-compST2_08-May-09-v25k.xls	5/8/2009	BP, mH(--), Gen(--), DDT(-)	Cort(--), Eq(--), --, --	--, --, --, --	Lab
hrER (CERl)-compST3_10-July-09-v25i.xls						
hrER (CERl)-compST2_26-Feb-09-v25f.xls	hrER (CERl)-compST2_26-Feb-09, v25k.xls	2/26/2009	17aEE, BP, DES, mH	Gen, 4-NP, DDT, Cort	Eq, --, --, --	Lab
hrER (CERl)-compST2_03-Mar-09-	hrER (CERl)-compST2_03-Mar-09, v25k.xls	3/3/2009	17aEE, BP,	Gen, 4-NP, DDT,	Eq, --, --, --	Lab

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
v25f.xls			DES, mH	Cort		
hrER (CERI)-compST2_11-Mar-09-v25f.xls	hrER (CERI)-compST2_11-Mar-09, v25k.xls	3/11/2009	17aEE, BP, DES, mH	Gen, 4-NP, DDT, Cort	Eq, --, --, --	Lab
hrER (CERI)-compST2_17-Mar-09-25f.xls	hrER (CERI)-compST2_17-Mar-09, v25k.xls	3/27/2009 T	17aEE, BP(--), DES(--), mH	Gen(--), 4-NP, DDT(--), Cort	Eq(--), --, --, --	Lab
Subtask 3						
hrER (CERI)-compST3_01-Jun-09-v25i.xls	hrER (CERI)-compST3_01-Jun-09-v25k.xls	6/1/2009	E2, Nethdrel, DBP(--), Zear	Tamox(--), DHT(--), BPA, Heptylphenol(-)	Kepone(--), BaA(--), ELactone(--), Progesterone(--)	Code
hrER (CERI)-compST3_04-Jun-09-v25i.xls	hrER (CERI)-compST3_04-Jun-09-v25k.xls	6/4/2009	E2, Nethdrel, DBP(--), Zear	Tamox(--), DHT(--), BPA, Heptylphenol	Kepone, BaA(--), ELactone, Progesterone	Code
hrER (CERI)-compST3_08-Jun-09-v25i.xls	hrER (CERI)-compST3_08-Jun-09-v25k.xls	6/8/2009	E2, Nethdrel, DBP(--), Zear	Tamox(--), DHT(--), BPA, Heptylphenol	Kepone, BaA(--), ELactone, Progesterone	Code
hrER (CERI)-compST3_10-June-09-v25i.xls	hrER (CERI)-compST3_10-June-09-v25k.xls	6/10/2009	DBP, Tamox, DHT, Heptylphenol	Kepone, BaA(--), ELactone, Progesterone	OTES, Atr(--), --, --	Code
hrER (CERI)-compST3_11-Jun-09-v25i.xls	hrER (CERI)-compST3_11-Jun-09-v25k.xls	6/11/2009 T	DBP, Tamox, DHT, Heptylphenol (--)	Kepone (--), BaA, ELactone(--), Progesterone(--)	OTES, Atr, --, --	Code
hrER (CERI)-compST3_12-Jun-09-v25i.xls	hrER (CERI)-compST3_12-Jun-09-v25k.xls	6/12/2009 T	DBP, Tamox, DHT, Heptylphenol (--)	Kepone (--), BaA, ELactone(--), Progesterone(--)	OTES, Atr, --, --	Code
hrER (CERI)-compST3_15-Jun-09-v25i.xls	hrER (CERI)-compST3_15-Jun-09-v25k.xls	6/15/2009	DBP(--), Tamox(--), DHT(--), Heptylphenol (--)	Kepone (--), BaA, ELactone(--), Progesterone(--)	OTES(--), Atr, --, --	Code
hrER (CERI)-compST3_01-July-09-v25i.xls	hrER (CERI)-compST3_01-July-09-v25k.xls	7/1/2009	E2, DBP, Zear, DHT	BPA, Kepone, BaA, ELactone	OTES(--), Atr(--), --, --	Code
hrER (CERI)-compST3_10-July-09-	hrER (CERI)-compST3_10-July-09-v25k.xls	7/10/2009	17EE, E2, DBP,	Tamox, DHT,	Kepone(--),	Lab

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
v25i.xls			Zear(--)	BPA(--), Heptylphenol(- -)	BaA, ELactone(--), Progesterone(--)	(17EE) Code(all else)
Subtask 12						
hrER (CERl)-ABC Coded-Additional Dilution CERl only_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution CERl only_14-May-10-v25k.xls	5/14/2010	E2, EE2, DBP, E2-TC(--)	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10a.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10a-v25k.xls	5/14/2010	E2, EE2, DBP, E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10b(sov1 ctol).xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10b(sov1 ctol) -v25k.xls	5/14/2010	E2(--), EE2(--), DBP(--), E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10c(FWA solv ct1).xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10c(FWA solv ct1) -v25k.xls	5/14/2010] CS	E2(--), EE2(--), DBP(--), E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10-v25k.xls	5/14/2010	E2, EE2, DBP, E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char+CERl_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char+CERl_14-May-10-v25k.xls	5/14/2010	E2, EE2, DBP, E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char_14-May-10-v25k.xls	5/14/2010 5	E2, EE2, DBP, E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution_14-May-10 CERl charcoal data with CERl SOLVENT control norm.xls	hrER (CERl)-ABC Coded-Additional Dilution_14-May-10 CERl charcoal data with CERl SOLVENT control norm-v25k.xls	5/14/2010 6	E2, EE2, DBP, E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded-Additional Dilution_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution_14-May-10-v25k.xls	5/14/2010 7	E2, EE2, DBP, E2-TC	--,--,--,--	--,--,--,--	code
hrER (CERl)-A dil variations_04Dec-09.xls	hrER (CERl)-A dil variations_04Dec-09-v25k.xls	12/4/2090	E2-TC std dil, E2-TC alt dil, E2-TC alt mix, E2-TC in 20% DMSO	--,--,--,--	--,--,--,--	LAB and Original PRISM matched to code
hrER (CERl)-ABC Coded_08-Dec-09.xls	hrER (CERl)-ABC Coded_08-Dec-09-v25k.xls	12/8/2009	E2, EE2, DBP, -	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded_12-Nov-09.xls	hrER (CERl)-ABC Coded_12-Nov-09-v25k.xls	11/12/200 9	E2, EE2, DBP, -	--,--,--,--	--,--,--,--	code
hrER (CERl)-ABC Coded_20-Oct-09	hrER (CERl)-ABC Coded_20-Oct-09 JCS-v25k.xls	10/20/200	E2, EE2, DBP, -	--,--,--,--	--,--,--,--	code

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
JCS.xls		9	-			
hrER (CERI)-ABC Coded_23-Sep-09.xls	hrER (CERI)-ABC Coded_23-Sep-09-v25k.xls	9/23/2009	E2, EE2, DBP,- -	--,--,--	--,--,--	code
hrER (CERI)-ABC Coded_27-Oct-09.xls	hrER (CERI)-ABC Coded_27-Oct-09-v25k.xls	10/27/2009	E2, EE2, DBP,- -	--,--,--	--,--,--	code
hrER (CERI)-ABC Coded_29-Jan-10.xls	hrER (CERI)-ABC Coded_29-Jan-10-v25k.xls	1/29/2010	E2, EE2, DBP,- -	--,--,--	--,--,--	code
hrER (CERI)-ABC Coded_29-April-10.xls	hrER (CERI)-ABC Coded_29-April-10-v25k.xls	4/29/2010	E2, EE2, DBP,- -	--,--,--	--,--,--	code
hrER (CERI)-ABC Coded_7-Apr-10 #1.xls	hrER (CERI)-ABC Coded_7-Apr-10 #1 v25k.xls,	4/7/2010	E2, EE2, DBP,- -	--,--,--	--,--,--	code
hrER (CERI)-ABC Coded_7-Apr-10 #2.xls,	hrER (CERI)-ABC Coded_7-Apr-10 #2 v25k.xls	4/7/2010	E2, EE2, DBP,- -	--,--,--	--,--,--	code
hrER (CERI)-ABC Coded_7-Apr-10 #3+triton.xls	hrER (CERI)-ABC Coded_7-Apr-10 #3+triton v25k.xls,	4/7/2010	E2, EE2, DBP,- -	--,--,--	--,--,--	code

-- Though there was the label "Unknown#" or "Code 0", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Missouri, CERI

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
hrER (CERI) data entry 4001, v25g 2m.xls	hrER (CERI) data entry 4001, v25k 2m.xls	4001-2m	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 4001 final, v25g.xls	hrER (CERI) data entry 4001 final, v25k.xls	4001	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 4002 final, v25g.xls	hrER (CERI) data entry 4002 final, v25k.xls	4002	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 4003 final, v25g.xls	hrER (CERI) data entry 4003 final, v25k.xls	4003	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 4005 final, v25g.xls	hrER (CERI) data entry 4005 final, v25k.xls	4005	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 4006 final, v25g.xls	hrER (CERI) data entry 4006 final, v25k.xls	4006	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 4007 final, v25g.xls	hrER (CERI) data entry 4007 final, v25k.xls	4007	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 5003 stds only w2, v25g.xls	hrER (CERI) data entry 5003 stds only w2, v25k.xls	5003	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 5005 stds only w1, v25h.xls	hrER (CERI) data entry 5005 stds only w1, v25k.xls	5005	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 5007 stds only, v25g.xls	hrER (CERI) data entry 5007 stds only, v25k.xls	5007	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI) data entry 5010 stds only w2, v25g.xls	hrER (CERI) data entry 5010 stds only w2, v25k.xls	5010	--, --, --, --	--, --, --, --	--, --, --, --	
Subtask II						
hrER (CERI) data entry 5006, v25g no del.xls	hrER (CERI) data entry 5006, v25g no del, v25k.xls	5006	EE, DES, Hex, GenW	BuPbn, NP, DDT, Cort	Equol, --, --, --	Original PRISM
hrER (CERI) data entry 5008 default, v25g.xls	hrER (CERI) data entry 5008 default, v25k.xls	5008	EE, DES, Hex, GenW	BuPbn, NP, DDT, Cort	Equol, --, --, --	Original PRISM
hrER (CERI) data entry 5009, v25g no deletions.xls	hrER (CERI) data entry 5009, v25g no deletions, v25k.xls	5009	EE, DES, Hex, GenW	BuPbn, NP, DDT, Cort	Equol, --, --, --	Original PRISM
Subtask III						
hrER (CERI) data entry 1-7, 6001 final w2, v25i.xls	hrER (CERI) data entry 1-7, 6001 final w2, v25k.xls	6001	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	Kepone(--), BaA(--), ELactone(--), Progesterone(--)	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (CERl) data entry 1-7, 6002 final w2, v25i.xls	hrER (CERl) data entry 1-7, 6002 final w2, v25k.xls	6002	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	Kepone(--), BaA(--), ELactone(--), Progesterone(--)	Code
hrER (CERl) data entry 1-7, 6005 final w2, v25i.xls	hrER (CERl) data entry 1-7, 6005 final w2, v25k.xls	6005	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	Kepone(--), BaA(--), ELactone(--), Progesterone(--)	code
hrER (CERl) data entry 1-7, 6006 final w2, v25i.xls	hrER (CERl) data entry 1-7, 6006 final w2, v25k.xls	6006	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	Kepone(--), BaA(--), ELactone(--), Progesterone(--)	code
hrER (CERl) data entry 1-7, 6007 final w2, v25i.xls	hrER (CERl) data entry 1-7, 6007 final w2, v25k.xls	6007	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	Kepone(--), BaA(--), ELactone(--), Progesterone(--)	code
hrER (CERl) data entry 8-14, 6009 final w2, v25i.xls	hrER (CERl) data entry 8-14, 6009 final w2, v25k.xls	6009	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl) data entry 8-14, 6009 final b w2, v25i.xls	hrER (CERl) data entry 8-14, 6009 final b w2, v25k.xls	6009b	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl) data entry 8-14, 6010 final w2, v25i.xls	hrER (CERl) data entry 8-14, 6010 final w2, v25k.xls	6010	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
						PRISM matched to code
hrER (CERl) data entry 8-14, 6011 final w2, v25i.xls	hrER (CERl) data entry 8-14, 6011 final w2, v25k.xls	6011	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl) data entry, 6502 final w2, v25i.xls	hrER (CERl) data entry, 6502 final w2, v25k.xls	6502	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl) data entry, 6503 final w2, v25i.xls	hrER (CERl) data entry, 6503 final w2, v25k.xls	6503	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl) data entry, 6504 final w2, v25i.xls	hrER (CERl) data entry, 6504 final w2, v25k.xls	6504	Heptylphenol, Kepone, BaA, ELactone	Progesterone, OTES, Atr, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
Subtask IV						
hrER (CERl) data entry, 2206 w4b, v25i.xls	hrER (CERl) data entry, 2206 w4b, v25k.xls	2206	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	Code
hrER (CERl) data entry, 2210 w4b, v25i.xls	hrER (CERl) data entry, 2210 w4b, v25k.xls	2210	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (CERl) data entry, 2211 w4b, v25i.xls	hrER (CERl) data entry, 2211 w4b, v25k.xls	2211	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	code
hrER (CERl) data entry, 2301 w4b, v25i.xls	hrER (CERl) data entry, 2301 w4b, v25k.xls	2301	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES- 2, Nethdrone-4, Gen-2	--, --, --, --	code
hrER (CERl) data entry, 2302 w4b, v25i.xls	hrER (CERl) data entry, 2302 w4b, v25k.xls	2302	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES- 2, Nethdrone-4, Gen-2	--, --, --, --	code
hrER (CERl) data entry, 2305 w4b, v25i.xls	hrER (CERl) data entry, 2305 w4b, v25k.xls	2305	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES- 2, Nethdrone-4, Gen-2	--, --, --, --	code

-- Though there was the label "Unknown#" or "Code0-", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Freyberger, CERI

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask II						
hrER (CERI) data entry Competitiv A, v25g.xls	hrER (CERI) data entry Competitiv A, v25kmod.xls	A	Butylparaben, Corticosterone, Equol, Hexestrol	--,--,--	--,--,--	Lab
hrER (CERI) data entry Competitiv B, v25g.xls	hrER (CERI) data entry Competitiv B, v25kmod.xls	B	Butylparaben, Corticosterone, Equol, Hexestrol	--,--,--	--,--,--	Lab
hrER (CERI) data entry Competitiv C, v25g.xls	hrER (CERI) data entry Competitiv C, v25kmod.xls	C	Butylparaben, Corticosterone, Equol, Hexestrol	--,--,--	--,--,--	Lab
hrER (CERI) data entry Competitiv D, v25g.xls	hrER (CERI) data entry Competitiv D, v25kmod.xls	D	Butylparaben, Corticosterone, Equol, Hexestrol	--,--,--	--,--,--	Lab
hrER (CERI) data entry Competitiv E, v25g.xls	hrER (CERI) data entry Competitiv E, v25kmod.xls	E	DDT, DES, 17a-Ethynylestradiol, Genistein	Nonylphenol, --, --	--,--,--	Lab
hrER (CERI) data entry Competitiv F, v25g.xls	hrER (CERI) data entry Competitiv F, v25kmod.xls	F	DDT, DES, 17a-Ethynylestradiol, Genistein	Nonylphenol, --, --	--,--,--	Lab
hrER (CERI) data entry Competitiv G, v25g.xls	hrER (CERI) data entry Competitiv G, v25kmod.xls	G	DDT, DES, 17a-Ethynylestradiol, Genistein	Nonylphenol, --, --	--,--,--	Lab
Subtask III						
hrER (CERI) data entry CODE A1, v25g.xls	hrER (CERI) data entry CODE A1, v25kmod.xls	CODE A1	E2, Tamox, BPA, Kepone	ELactone, --, --, --	--,--,--	Code
hrER (CERI) data entry CODE A2, v25g.xls	hrER (CERI) data entry CODE A2, v25kmod.xls	CODE A2	E2, Tamox, BPA, Kepone	ELactone, --, --, --	--,--,--	Code
hrER (CERI) data entry CODE A3, v25g.xls	hrER (CERI) data entry CODE A3, v25kmod.xls	CODE A3	E2, Tamox,	ELactone, --, --,	--,--,--	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
			BPA, Kepone	--		
hrER (CERl) data entry CODE B1, v25g.xls	hrER (CERl) data entry CODE B1, v25kmod.xls	CODE B1	OTES, DBP, Zear, DHT	Heptylphenol, - -, --, --	--, --, --, --	Code
hrER (CERl) data entry CODE B2, v25g.xls	hrER (CERl) data entry CODE B2, v25kmod.xls	CODE B2	OTES, DBP, Zear, DHT	Heptylphenol, - -, --, --	--, --, --, --	Code
hrER (CERl) data entry CODE B3, v25g.xls	hrER (CERl) data entry CODE B3, v25kmod.xls	CODE B3	OTES, DBP, Zear, DHT	Heptylphenol, - -, --, --	--, --, --, --	Code
hrER (CERl) data entry CODE C1, v25g.xls	hrER (CERl) data entry CODE C1, v25kmod.xls	CODE C1	BaA, Progesterone, Atr, Nethdrel	Heptylphenol(- -), --, --, --	--, --, --, --	Code
hrER (CERl) data entry CODE C2, v25g.xls	hrER (CERl) data entry CODE C2, v25kmod.xls	CODE C2	BaA, Progesterone, Atr, Nethdrel	Heptylphenol(- -), --, --, --	--, --, --, --	Code
hrER (CERl) data entry CODE C3, v25g.xls	hrER (CERl) data entry CODE C3, v25kmod.xls	CODE C3	BaA, Progesterone, Atr, Nethdrel	Heptylphenol(- -), --, --, --	--, --, --, --	Code

-- Though there was the label "Unknown#" or "Code 0", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

JapanCERI, CERI

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
hrER (CERI)competitive091224_01, v25i.xls	hrER (CERI)competitive091224_01, v25k.xls	091224	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI)competitive100107_02, v25i.xls	hrER (CERI)competitive100107_02, v25k.xls	100107	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (CERI)competitive100108_03, v25i.xls	hrER (CERI)competitive100108_03, v25k.xls	100108	--, --, --, --	--, --, --, --	--, --, --, --	
Subtask II						
hrER (CERI)competitive100119_01, v25i.xls	hrER (CERI)competitive100119_01, v25k.xls	100119	17a-Ethynyl estradiol, Diethylstilbest rol, meso- Hexestrol, Genistein	N- Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (CERI)competitive100126_02, v25i.xls	hrER (CERI)competitive100126_02, v25k.xls	100126	17a-Ethynyl estradiol, Diethylstilbest rol, meso- Hexestrol, Genistein	N- Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (CERI)competitive100129_03, v25i.xls	hrER (CERI)competitive100129_03, v25k.xls	100129	17a-Ethynyl estradiol, Diethylstilbest rol, meso- Hexestrol, Genistein	N- Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
Subtask III						
hrER (CERI)competitive100203_01, v25i.xls	hrER (CERI)competitive100203_01, v25k.xls	100203	Kepone, Zear, Progesterone, Tamox	BPA, BaA, DBP, DHT	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERI)competitive100208_02, v25i.xls	hrER (CERI)competitive100208_02, v25k.xls	100208	Kepone, Zear, Progesterone,	BPA, BaA, DBP, DHT	--, --, --, --	Unknowns in lab

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
			Tamox			matched to Original PRISM matched to code
hrER (CERl)competitive100215_03, v25i.xls	hrER (CERl)competitive100215_03, v25k.xls	100215	Kepone, Zear, Progesterone, Tamox	BPA, BaA, DBP, DHT	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl)competitive100223_04, v25i.xls	hrER (CERl)competitive100223_04, v25k.xls	100223	Heptylphenol, ELactone, E2, Nethdrel	Atr, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl)competitive100224_05, v25i.xls	hrER (CERl)competitive100224_05, v25k.xls	100224	Heptylphenol, ELactone, E2, Nethdrel	Atr, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl)competitive100225_06, v25i.xls	hrER (CERl)competitive100225_06, v25k.xls	100225	Heptylphenol, ELactone, E2, Nethdrel	Atr, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl)competitive100226_07, v25i.xls	hrER (CERl)competitive100226_07, v25k.xls	100226	Progesterone, BPA, Heptylphenol, --	--, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
						matched to code
hrER (CERl)competitive100301_08, v25i.xls	hrER (CERl)competitive100301_08, v25k.xls	100301	OTES, --, --, --	--, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl)competitive100303_09, v25i.xls	hrER (CERl)competitive100303_09, v25k.xls	100303	OTES, --, --, --	--, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code
hrER (CERl)competitive100305_10, v25i.xls	hrER (CERl)competitive100305_10, v25k.xls	100305	OTES, --, --, --	--, --, --, --	--, --, --, --	Unknowns in lab matched to Original PRISM matched to code

-- Though there was the label “Unknown#” or ”Code 0”, there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Table A-3 Organization of Test Chemicals into Test Run Data Templates for FWA Protocol**Ceetox, FWA**

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
hrER (FWA) data entry 20081123 run 2, v39.xls	hrER (FWA) data entry 20081123 run 2, v39.xls	20081123	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 20081124 run 3, v39.xls	hrER (FWA) data entry 20081124 run 3, v39.xls	20081124	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 20081218 run 4, v39.xls	hrER (FWA) data entry 20081218 run 4, v39.xls	20081128	--, --, --, --	--, --, --, --	--, --, --, --	
Subtask II						
hrER (FWA) L2, sub II data entry 20090124 run 1, v39.xls	hrER (FWA) L2, sub II data entry 20090124 run 1, v39.xls	20090124	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (FWA) L2, sub II data entry 20090128 run 2, v39.xls	hrER (FWA) L2, sub II data entry 20090128 run 2, v39.xls	20090128	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (FWA) L2, sub II data entry 20090202 run 3, v39.xls	hrER (FWA) L2, sub II data entry 20090202 run 3, v39.xls	20090202	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (FWA) L2, sub II data entry 20090213 run 3b-, v39.xls	hrER (FWA) L2, sub II data entry 20090213 run 3b-, v39.xls	20090213_b	17a-Ethynyl estradiol, Genistein, Corticosterone, 17a-Ethynyl estradiol	--, --, --, --	--, --, --, --	Lab
hrER (FWA) L2, sub II data entry 20090223 run 4, v39.xls	hrER (FWA) L2, sub II data entry 20090223 run 4, v39.xls	20090223	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
hrER (FWA) L2, sub II data entry 20090307 run 5, v39.xls	hrER (FWA) L2, sub II data entry 20090307 run 5, v39.xls	20090307	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Total Binding, Equol, SDS, buffer control	Original PRISM

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (FWA) L2, sub II data entry 20090326 run 6, v39.xls	hrER (FWA) L2, sub II data entry 20090326 run 6, v39.xls	20090326	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Total Binding, Equol, SDS, buffer control	Lab (total binding, SDS, and buffer control) and Original PRISM (all else)
hrER (FWA) L2, sub II data entry 20090124 run 1 BAD, v39.xls						
hrER (FWA) L2, sub II data entry 20090128 run 2 BAD, v39.xls						
hrER (FWA) L2, sub II data entry 20090202 run 3 BAD, v39.xls						
hrER (FWA) L2, sub II data entry 20090213 run 4-2, v39TEST.xls	hrER (FWA) L2, sub II data entry 20090213 run 4-2, v39TEST.xls	20090213T EST_2	17a-Ethynyl estradiol, Genistein, Corticosterone, 17a-Ethynyl estradiol	--, --, --, --	--, --, --, --	lab
hrER (FWA) L2, sub II data entry 20090213 run 4, v39TEST.xls	hrER (FWA) L2, sub II data entry 20090213 run 4, v39TEST.xls	20090213 TEST	17a-Ethynyl estradiol, Genistein, Corticosterone, 17a-Ethynyl estradiol	--, --, --, --	--, --, --, --	lab
hrER (FWA) L2, sub II data entry 20090223 run 5, v39 GOOD run4.xls	hrER (FWA) L2, sub II data entry 20090223 run 5, v39 GOOD run4.xls	20090223G OOD	17a-Ethynyl estradiol, DES, Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, DDT, Corticosterone	Equol, --, --, --	Original PRISM
Subtask III						
hrER (FWA) L2, sub III data entry 20090418 run 1 DMSO.xls	hrER (FWA) L2, sub III data entry 20090418 run 1 DMSO.xls	20090418 DMSO	BaA, SDS, Buffer Control, --	--, --, --, --	--, --, --, --	Code(BaA) Lab(All Else)
hrER (FWA) L2, sub III data entry 20090418 run 1.xls	hrER (FWA) L2, sub III data entry 20090418 run 1.xls	20090418	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, Heptylphenol	Kepone, ELactone, Progesterone,	code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
					OTES	
hrER (FWA) L2, sub III data entry 20090418 run 1B.xls	hrER (FWA) L2, sub III data entry 20090418 run 1B.xls	20090418B	Atr, TB (Solvent only), Atr, TB (Solvent only)	--, --, --, --	--, --, --, --	Code(Atr) Lab(All Else)
hrER (FWA) L2, sub III data entry 20090426 run 2.xls	hrER (FWA) L2, sub III data entry 20090426 run 2.xls	20090426	E2, Nethdrel, DBP, Zear,	Tamox, DHT, BPA, Heptylphenol	Kepone, ELactone, Progesterone, OTES	code
hrER (FWA) L2, sub III data entry 20090426 run 2B.xls	hrER (FWA) L2, sub III data entry 20090426 run 2B.xls	20090426B	Atr, TB (Solvent only), DBP, Zear	--, --, --, --	--, --, --, --	Code(Atr, DBP, Zear) Lab(All Else)
hrER (FWA) L2, sub III data entry 20090505 run 3 chem 14.xls	hrER (FWA) L2, sub III data entry 20090505 run 3 chem 14.xls	20090505c hem14	Atr, TB (Solvent only), Atr, TB (Solvent only)	--, --, --, --	--, --, --, --	Code(Atr) Lab(All Else)
hrER (FWA) L2, sub III data entry 20090505 run 3.xls	hrER (FWA) L2, sub III data entry 20090505 run 3.xls	20090505	E2, Nethdrel, DBP, Zear,	Tamox, DHT, BPA, Heptylphenol	Kepone, ELactone, Progesterone, OTES	code
hrER (FWA) L2, sub III data entry 20090507 run 2 DMSO.xls	hrER (FWA) L2, sub III data entry 20090507 run 2 DMSO.xls	20090505 DMSO	BaA, SDS, Buffer control, Zear	--, --, --, --	--, --, --, --	Code(BaA, Zear) Lab(All Else)
hrER (FWA) L2, sub III data entry 20090514 run 3 DMSO.xls	hrER (FWA) L2, sub III data entry 20090514 run 3 DMSO.xls	20090514 DMSO	BaA, Buffer control, blank, blank	--, --, --, --	--, --, --, --	Code(BaA) Lab(All Else)
Subtask IV						
hrER (FWA) L2, sub IV data entry 20090911 run 1 A v39.xls	hrER (FWA) L2, sub IV data entry 20090911 run 1 A v39.xls	20090911A	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	BPA-2, Dex-2, Nethdrone-3, Cort-2	code
hrER (FWA) L2, sub IV data entry 20090911 run 1 B v39.xls	hrER (FWA) L2, sub IV data entry 20090911 run 1 B v39.xls	20090911B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	code
hrER (FWA) L2, sub IV data entry 20090914 run 2 A v39.xls	hrER (FWA) L2, sub IV data entry 20090914 run 2 A v39.xls	20090914	Cort-1, Dex-1, Nethdrone-1,	Gen-1, BPA-1, OTES-1,	BPA-2, Dex-2, Nethdrone-3,	code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
			HPTE-1	Nethdrone-2	Cort-2	
hrER (FWA) L2, sub IV data entry 20090914 run 2 B v39 .xls	hrER (FWA) L2, sub IV data entry 20090914 run 2 B v39 .xls	20090914B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	code
hrER (FWA) L2, sub IV data entry 20090917 run 3 A v39 .xls	hrER (FWA) L2, sub IV data entry 20090917 run 3 A v39 .xls	20090917A	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	BPA-2, Dex-2, Nethdrone-3, Cort-2	Code
hrER (FWA) L2, sub IV data entry 20090917 run 3 B v39 .xls	hrER (FWA) L2, sub IV data entry 20090917 run 3 B v39 .xls	20090917B	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	--, --, --, --	Code

-- Though there was the label “Unknown#”, there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Lovelace, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask 1						
hrER (FWA) comp_03Dec08, v39.xls	hrER (FWA) comp_03Dec08, v39.xls	03Dec08	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) comp_09Dec08, v39.xls	hrER (FWA) comp_09Dec08, v39.xls	09Dec08	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) comp_13Dec08, v39.xls	hrER (FWA) comp_13Dec08, v39.xls	13Dec08	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) comp_16Dec08, v39.xls	hrER (FWA) comp_16Dec08, v39.xls	16Dec08	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) comp_19Dec08, v39.xls	hrER (FWA) comp_19Dec08, v39.xls	19Dec08	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) comp_27-Jan-09.xls	hrER (FWA) comp_27-Jan-09.xls	27Jan09	--, --, --, --	--, --, --, --	--, --, --, --	
Subtask 2						
G2 hrER (FWA) compST2 DMSO_14-Feb-09.xls	G2 hrER (FWA) compST2 DMSO_14-Feb-09.xls	14Feb09DM SO	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
G2 hrER (FWA) compST2 DMSO_17-Feb-09.xls	G2 hrER (FWA) compST2 DMSO_17-Feb-09.xls	17Feb09DM SO	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
G2 hrER (FWA) compST2 DMSO_19-Feb-09.xls	G2 hrER (FWA) compST2 DMSO_19-Feb-09.xls	19Feb09DM SO	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_06-Feb-09 corrected.xls	hrER (FWA) compST2 EtOH_06-Feb-09 corrected.xls	06Feb09Et OH	--, BP, DES, --	--, NP, DDT, --	Eq, --, --, --	Lab
hrER (FWA) compST2 EtOH_09-Feb-09	hrER (FWA) compST2 EtOH_09-Feb-09	09Feb09Et	--, BP, DES, --	--, NP, DDT, --	Eq, --, --, --	Lab

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
corrected.xls	corrected.xls	OH				
hrER (FWA) compST2 EtOH_24-Feb-09 corrected.xls	hrER (FWA) compST2 EtOH_24-Feb-09 corrected.xls	24Feb09Et OH	--, BP, DES, --	--, NP, DDT, --	Eq, --, --, --	Lab
hrER (FWA) compST2 EtOH_16-April-09 corrected.xls	hrER (FWA) compST2 EtOH_16-April-09 corrected.xls	16April09Et OH	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_24-April-09 corrected.xls	hrER (FWA) compST2 EtOH_24-April-09 corrected.xls	24April09Et OH	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_28-April-09 corrected.xls	hrER (FWA) compST2 EtOH_28-April-09 corrected.xls	28April09Et OH	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_13_May-09 corrected.xls	hrER (FWA) compST2 EtOH_13_May-09 corrected.xls	13May09Et OH	--, BP, DES, mH	Gen, --, --, --	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_28_May-09 corrected.xls	hrER (FWA) compST2 EtOH_28_May-09 corrected.xls	28May09Et OH	17aEE, --, --, --	--, --, --, Cort	Eq, --, --, --	Lab
hrER (FWA) compST2 DMSO_30-Jan-09 ERR.xls	hrER (FWA) compST2 DMSO_30-Jan-09 ERR.xls	30Jan09DM SO	17aEE, BP, --, mH	Gen, NP, DDT, Cort	Eq, --, --, --	Lab
hrER (FWA) compST2 EtOH 12-Feb-09.xls	hrER (FWA) compST2 EtOH 12-Feb-09.xls	12Feb09Et OH	--, BP, DES, --	--, NP, DDT, --	Eq, --, --, --	Lab
hrER (FWA) compST2 EtOH_01-Mayl-09 corrected.xls	hrER (FWA) compST2 EtOH_01-May-09 corrected.xls	01May09Et OH	--, BP, DES, mH	Gen, --, --, --	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_10-April-09 ERR.xls	hrER (FWA) compST2 EtOH_10-April-09 ERR.xls	10April09Et OH	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	Lab
hrER (FWA) compST2 EtOH_21-April-09 ERR.xls	hrER (FWA) compST2 EtOH_21-April-09 ERR.xls	21April09Et OH	17aEE, --, --, mH	Gen, --, --, Cort	--, --, --, --	lab
Subtask 3						
hrER (FWA) compST3-coded EtOH 10-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 10-Mar-09 CORRECTED CONC.xls	10Mar09Et OH	DBP, Tamox, DHT, BPA	ELactone, OTES, Atr, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 13-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 13-Mar-09 CORRECTED CONC.xls	13Mar09Et OH	DBP, Tamox, DHT, BPA	ELactone, OTES, Atr, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 24-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 24-Mar-09 CORRECTED CONC.xls	24Mar09Et OH	DBP, Tamox, DHT, BPA	ELactone, OTES, Atr, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 31-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 31-Mar-09 CORRECTED CONC.xls	31Mar09Et OH	E2, Nethdrel, Zear, Heptylphenol	Kepone, Progesterone, --, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 17-Jun-09.xls	hrER (FWA) compST3-coded EtOH 17-Jun-09.xls	17Jun09EtOH	E2, Nethdrel, Zear, Heptylphenol	Kepone, Progesterone, --, --	--, --, --, --	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (FWA) compST3-coded EtOH 23-Jun-09.xls	hrER (FWA) compST3-coded EtOH 23-Jun-09.xls	23Jun09EtOH	E2, Nethdrel, Zear, Heptylphenol	Kepone, Progesterone, -, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 25-Jun-09.xls	hrER (FWA) compST3-coded EtOH 25-Jun-09.xls	25Jun09EtOH	Tamox, DHT, BPA, ELactone	OTES, --, --, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 30-Jun-09.xls	hrER (FWA) compST3-coded EtOH 30-Jun-09.xls	30Jun09EtOH	E2, Nethdrel, Zear, Tamox	DHT, BPA, Heptylphenol, Kepone	Progesterone, -, --, --	Code
hrER (FWA) compST3-coded EtOH 20-Mar-09 ERR.xls	hrER (FWA) compST3-coded EtOH 20-Mar-09 ERR.xls	20Mar09EtOH	DBP, Tamox, DHT, BPA	ELactone, OTES, Atr, --	--, --, --, --	Code
hrER (FWA) compST3-coded EtOH 19-Jun-09.xls	hrER (FWA) compST3-coded EtOH 19-Jun-09.xls	19Jun09EtOH	E2, Nethdrel, Zear, Heptylphenol	Kepone, Progesterone, -, --	--, --, --, --	Code
hrER (FWA) compST3-coded DMSO 03-May-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded DMSO 03-May-09 CORRECTED CONC.xls	03May09DMSO	BaA, --, --, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) compST3-coded DMSO 03-May-09-2 CORRECTED CONC.xls	hrER (FWA) compST3-coded DMSO 03-May-09-2 CORRECTED CONC.xls	03May09DMSO_2	BaA, --, --, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) compST3-coded DMSO 03-May-09-3 CORRECTED CONC.xls	hrER (FWA) compST3-coded DMSO 03-May-09-3 CORRECTED CONC.xls	03May09DMSO_3	BaA, --, --, --	--, --, --, --	--, --, --, --	Code
Subtask 12						
hrER (FWA) comp-ABC coded EtOH 06-Oct-09.xls	hrER (FWA) comp-ABC coded EtOH 06-Oct-09.xls	06Oct09EtOH	E2-TC, EE2, DBP-TC, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) comp-ABC coded EtOH 09-Oct-09.xls	hrER (FWA) comp-ABC coded EtOH 09-Oct-09.xls	09Oct09EtOH	E2-TC, EE2, DBP-TC, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) comp-ABC coded EtOH 14-Oct-09.xls	hrER (FWA) comp-ABC coded EtOH 14-Oct-09.xls	14Oct09EtOH	E2-TC, EE2, DBP-TC, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) comp-ABC coded EtOH 25-Sep-09.xls	hrER (FWA) comp-ABC coded EtOH 25-Sep-09.xls	25Sep09EtOH	E2-TC, EE2, DBP-TC, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) comp-ABC + 8,9,12, 14 coded EtOH 09-July-10 using BUFFER control.xls	hrER (FWA) comp-ABC + 8,9,11, 12, 14 coded EtOH 09-July-10 using BUFFER control.xls	09July10 EtOH_Buffer	E2-TC, EE2, DBP-TC, Heptylphenol	Kepone, Progesterone, Atr,--	--, --, --, --	Code, lab has trouble to run some chemicals in task 3. Reran them in task 12

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (FWA) comp-ABC + 8,9,12, 14 coded EtOH 09-July-10.xls	hrER (FWA) comp-ABC + 8,9,11, 12, 14 coded EtOH 09-July-10.xls	09July10 EtOH	E2-TC, EE2, DBP-TC, Heptylphenol	Kepone, Progesterone, Atr,--	--, --, --, --	Code, lab has trouble to run some chemicals in task 3. Reran them in task 12Code
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10.xls	hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10.xls	19Aug10Et OH	E2-TC, DBP- TC,Heptylphe nol, Kepone	Elactone, Progesterone, - , --	--, --, --, --	c Code, lab has trouble to run some chemicals in task 3. Reran them in task 12code
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10 using BUFFER control.xls	hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10 using BUFFER control.xls	19Aug10Et OH_Buffer	E2-TC, DBP- TC, Heptylphenol, Kepone	Elactone, Progesterone, - , --	--, --, --, --	Code, lab has trouble to run some chemicals in task 3. Reran them in task 12code

-- Though there was the label "Unknown#", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Missouri, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
hrER (FWA) data entry 3005 final, v39mod.xls	hrER (FWA) data entry 3005 final, v39mod.xls	3005	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 3006 final, v39mod.xls	hrER (FWA) data entry 3006 final, v39mod.xls	3006	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 3008 final, v39mod.xls	hrER (FWA) data entry 3008 final, v39mod.xls	3008	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 7003 final, v39mod.xls	hrER (FWA) data entry 7003 final, v39mod.xls	7003	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 7004, v39mod.xls	hrER (FWA) data entry 7004, v39mod.xls	7004	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 7005 final, v39mod.xls	hrER (FWA) data entry 7005 final, v39mod.xls	7005	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 7006 final, v39mod.xls	hrER (FWA) data entry 7006 final, v39mod.xls	7006	--, --, --, --	--, --, --, --	--, --, --, --	
hrER (FWA) data entry 7007 final, v39mod.xls	hrER (FWA) data entry 7007 final, v39mod.xls	7007	--, --, --, --	--, --, --, --	--, --, --, --	
Subtask II						
hrER (FWA) data entry 9003 final2, v39mod.xls	hrER (FWA) data entry 9003 final2, v39mod.xls	9003	EE, DES, Hex, BuPbn	GenB, GenW, NP, opDDT	Cort, Equol, --, -	Original PRISM
hrER (FWA) data entry 9004 final3, v39mod.xls	hrER (FWA) data entry 9004 final3, v39mod.xls	9004	EE, DES, Hex, BuPbn	GenB, GenW, NP, opDDT	Cort, Equol, --, -	Original PRISM
hrER (FWA) data entry 9005 final2, v39mod.xls	hrER (FWA) data entry 9005 final2, v39mod.xls	9005	EE, DES, Hex, BuPbn	GenB, GenW, NP, opDDT	Cort, Equol, --, -	Original PRISM
hrER (FWA) data entry 9007 final2, v39mod.xls	hrER (FWA) data entry 9007 final2, v39mod.xls	9007	EE, DES, Hex, BuPbn	GenB, GenW, NP, opDDT	Cort, Equol, --, -	Original PRISM
Subtask III						
hrER (FWA) data entry 8001 final2, v39mod revised.xls	hrER (FWA) data entry 8001 final2, v39mod revised.xls	8001	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8002 final2, v39mod revised.xls	hrER (FWA) data entry 8002 final2, v39mod revised.xls	8002	E2, Nethdrel, DBP, Zear	--, --, --, --	--, --, --, --	Code
hrER (FWA) data entry 8003 final2 w4, v39mod.xls	hrER (FWA) data entry 8003 final2 w4, v39mod.xls	8003	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8004 final2, v39mod.xls	hrER (FWA) data entry 8004 final2, v39mod.xls	8004	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8005 final, v39mod.xls	hrER (FWA) data entry 8005 final, v39mod.xls	8005	--, --, --, --	Tamox, DHT, BPA, --	--, --, --, --	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER (FWA) data entry 8101 final2 w6, v39mod.xls	hrER (FWA) data entry 8101 final2 w6, v39mod.xls	8101	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8102 final2 w6, v39mod.xls	hrER (FWA) data entry 8102 final2 w6, v39mod.xls	8102	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8107 final2 w6, v39mod.xls	hrER (FWA) data entry 8107 final2 w6, v39mod.xls	8107	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8108 final2 w6, v39mod.xls	hrER (FWA) data entry 8108 final2 w6, v39mod.xls	8108	E2, Nethdrel, DBP, Zear	Tamox, DHT, BPA, --	--, --, --, --	Code
hrER (FWA) data entry 8201 final2 w6, v39mod.xls	hrER (FWA) data entry 8201 final2 w6, v39mod.xls	8201DMSO	BaA, --, --, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) data entry 8202 final2 w6, v39mod.xls	hrER (FWA) data entry 8202 final2 w6, v39mod.xls	8202 DMSO	BaA, --, --, --	--, --, --, --	--, --, --, --	Code
hrER (FWA) data entry 8203 final2 w6, v39mod.xls	hrER (FWA) data entry 8203 final2 w6, v39mod.xls	8203 DMSO	BaA, --, --, --	--, --, --, --	--, --, --, --	Code
Subtask IV						
hrER (FWA) data entry 1101 w6, v39mod.xls	hrER (FWA) data entry 1101 w6, v39mod.xls	1101	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	Code
hrER (FWA) data entry 1102 w6, v39mod.xls	hrER (FWA) data entry 1102 w6, v39mod.xls	1102	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	Code
hrER (FWA) data entry 1103 w6, v39mod.xls	hrER (FWA) data entry 1103 w6, v39mod.xls	1103	Cort-1, Dex-1, Nethdrone-1, HPTE-1	--, --, --, --	--, --, --, --	Code
hrER (FWA) data entry 1104 w6, v39mod.xls	hrER (FWA) data entry 1104 w6, v39mod.xls	1104	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	Code
hrER (FWA) data entry 1105 w6, v39mod.xls	hrER (FWA) data entry 1105 w6, v39mod.xls	1105	--, --, --, --	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	Code
hrER (FWA) data entry 1106 w6, v39mod.xls	hrER (FWA) data entry 1106 w6, v39mod.xls	1106	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	Code
hrER (FWA) data entry 1107 w6, v39mod.xls	hrER (FWA) data entry 1107 w6, v39mod.xls	1107	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES-2, Nethdrone-4, Gen-2	--, --, --, --	Code
hrER (FWA) data entry 1111 w6,	hrER (FWA) data entry 1111 w6, v39mod.xls	1111	Cort-1, Dex-1,	Gen-1, BPA-1,	--, --, --, --	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
v39mod.xls			Nethdrone-1, HPTE-1	OTES-1, Nethdrone-2		
hrER (FWA) data entry 1108 w6, v39mod.xls	hrER (FWA) data entry 1108 w6, v39mod.xls	1108	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	Code
hrER (FWA) data entry 1109 w6, v39mod.xls	hrER (FWA) data entry 1109 w6, v39mod.xls	1109	BPA-2, Dex-2, Nethdrone-3, Cort-2	HPTE-2, OTES- 2, Nethdrone-4, Gen-2	--, --, --, --	Code
hrER (FWA) data entry 1110 w6, v39mod.xls	hrER (FWA) data entry 1110 w6, v39mod.xls	1110	Cort-1, Dex-1, Nethdrone-1, HPTE-1	Gen-1, BPA-1, OTES-1, Nethdrone-2	--, --, --, --	Code

-- Though there was the label "Unknown#", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Freyberger, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask II						
hrER_FWA_Competitiv A.xls	hrER_FWA_Competitiv A, v39mod.xls	A	Butylparaben, Corticosteron e, DDT, DES	Equol, Ethinylestradi ol, Genistein, Hexestrol	Nonylphenol, --, --, --	Lab
hrER_FWA_Competitiv B.xls	hrER_FWA_Competitiv B, v39mod.xls	B	Butylparaben, Corticosteron e, DDT, DES	Equol, Ethinylestradi ol, Genistein, Hexestrol	Nonylphenol, --, --, --	Lab
hrER_FWA_Competitiv C.xls	hrER_FWA_Competitiv C, v39mod.xls	C	Butylparaben, Corticosteron e, DDT, DES	Equol, Ethinylestradi ol, Genistein, Hexestrol	Nonylphenol, --, --, --	Lab
hrER_FWA_Competitiv D.xls	hrER_FWA_Competitiv D, v39mod.xls	D	Butylparaben, Corticosteron e, DDT, DES	Equol, Ethinylestradi ol, Genistein, Hexestrol	Nonylphenol, --, --, --	Lab
hrER_FWA_Competitiv E (DMSO).xls	hrER_FWA_Competitiv E (DMSO) , v39mod.xls	E	Corticosteron e, DDT, Genistein, --	--, --, --, --	--, --, --, --	Lab
hrER_FWA_Competitiv F (DMSO).xls	hrER_FWA_Competitiv F (DMSO) , v39mod.xls	F	Corticosteron e, DDT, Genistein, --	--, --, --, --	--, --, --, --	Lab
hrER_FWA_Competitiv G (DMSO).xls	hrER_FWA_Competitiv G (DMSO) , v39mod.xls	G	Corticosteron e, DDT, Genistein, --	--, --, --, --	--, --, --, --	Lab
Subtask III						
hrER_FWA_Code A1.xls	hrER_FWA_Code A1, v39mod.xls	Code A1	Nethdrel, Atr, Progesterone, BaA	Heptylphenol, DHT, Zear, DBP	--, --, --, --	Code
hrER_FWA_Code A2.xls	hrER_FWA_Code A2, v39mod.xls	Code A2	Nethdrel, Atr, Progesterone, BaA	Heptylphenol, DHT, Zear, DBP	--, --, --, --	Code
hrER_FWA_Code A.xls	hrER_FWA_Code A, v39mod.xls	Code A	Nethdrel, Atr, Progesterone, BaA	Heptylphenol, DHT, Zear, DBP	--, --, --, --	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
hrER_FWA_Code AB.xls	hrER_FWA_Code AB, v39mod.xls	Code AB	Nethdrel, Atr, BaA, Heptylphenol	DHT, Zear, OTES, E2	--, --, --, --	Code
hrER_FWA_Code B1.xls	hrER_FWA_Code B1, v39mod.xls	Code B1	OTES, ELactone, Kepone, BPA	Tamox, E2, --, --	--, --, --, --	Code
hrER_FWA_Code B2.xls	hrER_FWA_Code B2, v39mod.xls	Code B2	OTES, ELactone, Kepone, BPA	Tamox, E2, --, --	--, --, --, --	Code
hrER_FWA_Code B.xls	hrER_FWA_Code B, v39mod.xls	Code B	OTES, ELactone, Kepone, BPA	Tamox, E2, --, --	--, --, --, --	Code

-- There were no data under the label.

JapanCERI, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
hrER (FWA)_01_20090113.xls	hrER (FWA)_01_20090113, v39.xlsx	20090113	Test Chemical 1, -- , --, --	--, --, --, --	--, --, --, --	Ignore TC#1
hrER (FWA)_02_20090121.xls	hrER (FWA)_02_20090121, v39.xlsx	20090121	Test Chemical 1, -- , --, --	--, --, --, --	--, --, --, --	Ignore TC#1
hrER (FWA)_03_20090128.xls	hrER (FWA)_03_20090128, v39.xlsx	20090128	Test Chemical 1, -- , --, --	--, --, --, --	--, --, --, --	Ignore TC#1
Subtask II						
hrER (FWA)_01_20090422.xls	hrER (FWA)_01_20090422, v39.xlsx	20090422	17 α -Ethinyl estradiol, Diethylstilbest rol, meso- Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, o,p'-DDT, corticosterone	Equol	lab
hrER (FWA)_02_20090427.xls	hrER (FWA)_02_20090427, v39.xlsx	20090427	17 α -Ethinyl estradiol, Diethylstilbest rol, meso- Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, o,p'-DDT, corticosterone	Equol	lab
hrER (FWA)_03_20090430.xls	hrER (FWA)_03_20090430, v39.xlsx	20090430	17 α -Ethinyl estradiol, Diethylstilbest rol, meso- Hexestrol, Genistein	Butylparaben, 4-Nonylphenol, o,p'-DDT, corticosterone	Equol	Lab
Subtask III						
hrER (FWA)_0th-091104-Task3.xls	hrER (FWA)_0th-091104-Task3, v39.xlsx	091104	BaA, E2, Atr, --	--, --, --, --	--, --, --, --	Code
hrER (FWA)_01_091021-Task3.xls	hrER (FWA)_01_091021-Task3, v39.xlsx	091021	Kepone, Zear, Progesterone, Tamox	BPA, Heptylphenol, DBP, DHT	--, --, --, --	Code
hrER (FWA)_02_091026-Task3.xls	hrER (FWA)_02_091026-Task3, v39.xlsx	091026	Kepone, Zear, Progesterone,	BPA, Heptylphenol,	--, --, --, --	Code

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
			Tamox	DBP, DHT		
hrER (FWA)_03_091105-Task3.xls	hrER (FWA)_03_091105-Task3, v39.xlsx	091105	Zear, Progesterone, Tamox, ELactone	Nethdrel, OTSE, --, --	--, --, --, --	Code
hrER (FWA)_04_091109-Task3.xls	hrER (FWA)_04_091109-Task3, v39.xlsx	091109	Zear, Progesterone, ELactone, Nethdrel	OTES, E2, --, --	--, --, --, --	code
hrER (FWA)_05_091110-Task3.xls	hrER (FWA)_05_091110-Task3, v39.xlsx	091110	BaA, E2, Atr, --	--, --, --, --	--, --, --, --	Code
hrER (FWA)_06_091111-Task3.xls	hrER (FWA)_06_091111-Task3, v39.xlsx	091111	Progesterone, ELactone, Nethdrel, OTES	E2, --, --, --	--, --, --, --	Code
hrER (FWA)_07_091112-Task3.xls	hrER (FWA)_07_091112-Task3, v39.xlsx	091112	BaA, E2, Atr, --	--, --, --, --	--, --, --, --	Code
hrER (FWA)_08_091116-Task3.xls	hrER (FWA)_08_091116-Task3, v39.xlsx	091116	Kepone, Zear, Tamox, BPA	DBP, DHT, Heptylphenol, OTSE	--, --, --, --	Code
hrER (FWA)_09_091117-Task3.xls	hrER (FWA)_09_091117-Task3, v39.xlsx	091117	BaA, E2, Atr, --	--, --, --, --	--, --, --, --	Code
hrER (FWA)_10_091118-Task3.xls	hrER (FWA)_10_091118-Task3, v39.xlsx	091118	BaA, E2, Atr, --	--, --, --, --	--, --, --, --	Code
hrER (FWA)_11_091119-Task3.xls	hrER (FWA)_11_091119-Task3, v39.xlsx	091119	BPA, Heptylphenol, OTES, --	--, --, --, --	--, --, --, --	Code

-- Though there was the label "Unknown#", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Dietrich, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
Subtask I						
CompetitionBinding- Assay03_Addendum_011107AHH.xls	CompetitionBinding- Assay03_Addendum_011107AHH, v39mod.xlsx	Assay03	--, --, --, --	--, --, --, --	--, --, --, --	
CompetitionBinding- Assay03_210807AHH.xls		Assay03				
CompetitionBinding- Assay02_Addendum_011107AHH.xls	CompetitionBinding- Assay02_Addendum_011107AHH, v39mod.xlsx	Assay02	--, --, --, --	--, --, --, --	--, --, --, --	
CompetitionBinding- Assay02_210807AHH.xls		Assay02				
CompetitionBinding- Assay01_Addendum_011107AHH.xls	CompetitionBinding- Assay01_Addendum_011107AHH, v39mod.xlsx	Assay01	--, --, --, --	--, --, --, --	--, --, --, --	
CompetitionBinding- Assay01_200807AHH.xls		Assay01				
Subtask II						
CompetitionBinding- Assay04_091007AHH.xls		Assay04				
CompetitionBinding- Assay04_060508AHH_template.xls	CompetitionBinding- Assay04_060508AHH_template, v39mod.xlsx	Assay04	EE2, DES, Hexestrol, Gen	ButylPar, NPhenol, DDT, Equol	CORT, --, --, --	Lab
13b_CompetitionBinding-Assay16(Task II part)_170608AHH_temp~.xls	13b_CompetitionBinding-Assay16(Task II part)_170608AHH_temp~, v39mod.xlsx	Assay16	CORT, DDT, NPhenol, ButylPar	DES, EE2, --, --	--, --, --, --	Original PRISM
12b_CompetitionBinding-Assay15(Task II part)_130608AHH_temp~.xls	12b_CompetitionBinding-Assay15(Task II part)_130608AHH_temp~, v39mod.xlsx	Assay15	EE2, DES, Hexestrol, Gen	ButylPar, NPhenol, DDT, Equol	CORT, --, --, --	Original PRISM
03b_CompetitionBinding- Assay06_290408AHH_template.xls	03b_CompetitionBinding- Assay06_290408AHH_template, v39mod.xlsx	Assay06	EE2, DES, Hexestrol, Gen	ButylPar, NPhenol, DDT, Equol	CORT, --, --, --	Lab
02b_CompetitionBinding- Assay05_170408AHH_template.xls	02b_CompetitionBinding- Assay05_170408AHH_template, v39mod.xlsx	Assay05	EE2, DES, Hexestrol, Gen	ButylPar, NPhenol, DDT, Equol	CORT, --, --, --	Lab
Subtask III						
13b_CompetitionBinding-Assay16(Task III part)_170608AHH_tem~.xls	13b_CompetitionBinding-Assay16(Task III part)_170608AHH_tem~, v39mod.xlsx	Assay16 (III)	Kepone, DDTEE2, --	--, --, --, --	--, --, --, --	lab (Substance s), code
12b_CompetitionBinding-Assay15(Task III part)_130608AHH_tem~.xls	12b_CompetitionBinding-Assay15(Task III part)_130608AHH_tem~, v39mod.xlsx	Assay15 (III)	Kepone, DDT, EE2, Dex	--, --, --, --	--, --, --, --	lab (Substance

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Chem 1-4	Chem 5-8	Chem 9-12	Comment
						s), code
11b_CompetitionBinding- Assay14(Part2)_100608AHH_template.xls	11b_CompetitionBinding- Assay14(Part2)_100608AHH_template, v39mod.xlsx	Assay14_2	Dex, --, --, --	--, --, --, --	--, --, --, --	Lab
11b_CompetitionBinding- Assay14(Part1)_100608AHH_template.xls	11b_CompetitionBinding- Assay14(Part1)_100608AHH_template, v39mod.xlsx	Assay14_1	DES, DHT, E2- TC, NPhenol	Gen, NE- TC, Atr, Nethdrone	Tamox, Kepone, DDT, EE2	Lab (Substance s), code
10b_CompetitionBinding- Assay13_090608AHH_template.xls	10b_CompetitionBinding- Assay13_090608AHH_template, v39mod.xlsx	Assay13	Cort, BaA, DES, Hexestrol	Heptylphenol, DHT, E2-TC, NPhenol	Gen, NE-TC Atr, Nethdrone	Lab (Substance s), code
10b_CompetitionBinding- Assay13(Part2)_090608AHH_template.xls	10b_CompetitionBinding- Assay13(Part2)_090608AHH_template, v39mod.xlsx	Assay13_2	Tamox, --, --, --	--, --, --, --	--, --, --, --	Lab (Substance s), code
09b_CompetitionBinding- Assay12(Part2)_280508AHH_template.xls	09b_CompetitionBinding- Assay12(Part2)_280508AHH_template, v39mod.xlsx	Assay12_2	Tamox, Kepone, DDT, EE2	Dex, --, --, --	--, --, --, --	Lab (Substance s), code
09b_CompetitionBinding- Assay12(Part1)_280508AHH_template.xls	09b_CompetitionBinding- Assay12(Part1)_280508AHH_template, v39mod.xlsx	Assay12_1	Cort, BaA, DES, Hexestrol	Heptylphenol, DHT, E2-TC, NPhenol	Gen, NE- TC, Atr, Nethdrone	Lab (Substance s), code
08b_CompetitionBinding- Assay11_270508AHH_template.xls	08b_CompetitionBinding- Assay11_270508AHH_template, v39mod.xlsx	Assay11	Cort, BaA, Hexestrol, --	--, --, --, --	--, --, --, --	Lab (Substance s), code
07b_CompetitionBinding- Assay10(Part2)_210508AHH_template.xls	07b_CompetitionBinding- Assay10(Part2)_210508AHH_template, v39mod.xlsx	Assay10_2	Tamox, Kepone, DDT, EE2	Dex, --, --, --	--, --, --, --	Lab (Substance s), code
07b_CompetitionBinding- Assay10(Part1)_210508AHH_template.xls	07b_CompetitionBinding- Assay10(Part1)_210508AHH_template, v39mod.xlsx	Assay10_1	Cort, BaA, DES, Hexestrol	Heptylphenol, DHT, E2-TC, NPhenol	Gen, NE-TC, Atr, Nethdrone	Lab (Substance s), code
06b_CompetitionBinding- Assay09_200508AHH_template.xls	06b_CompetitionBinding- Assay09_200508AHH_template, v39mod.xlsx	Assay09	HPTE, Zear, ELactone, Progesterone	DBP, ButylPar, OTES, BPA	Equol, --, --, --	Lab (Substance s), code
05b_CompetitionBinding- Assay08_140508AHH_template.xls	05b_CompetitionBinding- Assay08_140508AHH_template, v39mod.xlsx	Assay08	HPTE, Zear, ELactone, Progesterone	DBP, ButylPar, OTES, BPA	Equol, --, --, --	Lab (Substance s), code
04b_CompetitionBinding- Assay07_050508AHH_template.xls	04b_CompetitionBinding- Assay07_050508AHH_template, v39mod.xlsx	Assay07	HPTE, Zear, ELactone, Progesterone	DBP, ButylPar, OTES, BPA	Equol, --, --, --	Lab (Substance s), code

-- Though there was the label "Unknown#", there were no data under the label.

(--) An actual chemical name or code was given in the label, but there were no data under the label.

Appendix B. Data Template Conversion

Appendix B. Data Template Conversion

General Notes

- **CERI**
- **FWA**

Individual Laboratories

- **CERI**

Table B-1. Ceetox, CERI

Table B-2. Lovelace, CERI

Table B-3. University of Missouri, CERI

Table B-4. Freyberger, CERI

Table B-5. JapanCERI, CERI

- **FWA**

Table B-6. Ceetox, FWA

Table B-7. Lovelace, FWA

Table B-8. University of Missouri, FWA

Table B-9. Freyberger, FWA

Table B-10. JapanCERI, FWA

Table B-11. Dietrich, FWA

General Notes:**CERI**

For CERI data template v25i, the label for cell S24 is “Negative control (at 1.0 E-6 M only)” but the value is actually at 1.0E-7 M. Also the % bound was calculated using the buffer control instead of solvent control (see following steps 2, 3, 4, 5). The template is updated to v25k (version is given in the data sheet “Notes”) and the following changes have been made to v25i (steps 2 – 5 to change buffer control to solvent control; steps 6 – 9 to change negative control value to the one at 1.0 E-6 M) and all changes were made to the “Compet Input” data sheet:

1. Review/Unprotect sheet. Password is hrER.
2. Change cell V23 (column V, row 23) from “=AVERAGE (X33:X35)” to “=AVERAGE(X102:X104) (Using solvent control)”
3. Change cell S23 from “Specific binding” to “Specific binding in Solvent control”
4. Change cell U23 from “=COUNT(X33:X35)” to “=COUNT(X102:X104)”
5. Change cell WX23 from “=STDEV(X33:X35)” to “=STDEV(X102:X104)”
6. Change cell V24 from “=AVERAGE(V90:V92)” to “=AVERAGE(X93:X95)”
7. Change cell S24 from “Negative control (at 1.0 E-6 M only)” to “Specific binding of negative control (at 1 uM only)”
8. Change cell U24 from “=COUNT(V90:V92)” to “=COUNT(X93:X95)”
9. Change cell WX24 from “=STDEV(V90:V92)” to “=STDEV(X93:X95)”

Formulas as programmed in data template v25i were preserved in data template v25k, including the 10% rule for identifying data to be excluded because they were on the right-hand side of a U-shaped curve.

To convert the data into the new template from the laboratory template, the following was copied from the original lab data files and pasted into v25k template:

- the DPM data (column P, rows 33-397).
- the test runs’ specific information (column P, rows 6-16) .
- the “Summary Values (DPM)” (block: columns U - X, rows 18-24)
- If data were flagged as “outliers” or “impossible value” (column S) in the laboratory templates, then column S was replaced to add this information into the v25k file.

Thus the observed data were copied from the original data template and pasted into v25k template.

FWA

EPA sent the DCC template v39 (Version 39) for the FWA data. The individual laboratory (FWA) data were converted into the v39 template if they were not already in v39. In general, the conversion of data in earlier versions of the template into the new was the same as those described for the CERI template above.

Template v25k and template v39 are used for the data conversion. However, these data templates needed to be modified to accommodate the unique situation of original data files for some laboratories. If that happened, the modified templates were renamed as

v25kmod or v39mod” respectively for CERI and FWA protocols. The following describes the details about conversion of each data file for each laboratory.

Some laboratories has indicates the acceptable and unacceptable runs in some tasks but not all laboratories provided this information. These information is only based on very limited information from the data files, thus the information for acceptability column and the comments column is just a notes and is not necessary complete.

Individual Laboratory

CERI

Each individual CERI data file was converted into the v25k template using copy and paste as discussed above. Data for some laboratories may require specific steps due to unique circumstances. The data files and the corresponding converted files, including the specific data conversion steps, were listed below for each laboratory.

Table B-1 Ceetox, CERi

Files Received	Files Converted (V39 for FWA, V25k for CERi)	Task Run ID	Acceptability of the run (Laboratory's judgment)	Comments
Subtask I				
hrER (CERi) data entry comp subtask I, run 1 20090207, v25g.xls	hrER (CERi) data entry comp subtask I, run 1 20090207, v25k.xls	20090207		file in v25g
hrER (CERi) data entry comp subtask I, run 2 20090208, v25g.xls	hrER (CERi) data entry comp subtask I, run 2 20090208, v25k.xls	20090208		file in v25g
hrER (CERi) data entry comp subtask I, run 3 20090211, v25g.xls	hrER (CERi) data entry comp subtask I, run 3 20090211, v25k.xls	20090211		file in v25g
Subtask II				
hrER (CERi) data entry comp subtask II, run 1 20090215, v25i.xls	hrER (CERi) data entry comp subtask II, run 1 20090215 v25k.xls	20090215		
hrER (CERi) data entry comp subtask II, run 2 20090218, v25i.xls	hrER (CERi) data entry comp subtask II, run 2 20090218, v25k.xls	20090218		
hrER (CERi) data entry comp subtask II, run 3 20090221, v25i.xls	hrER (CERi) data entry comp subtask II, run 3 20090221, v25k.xls	20090221		
Subtask III				
hrER (CERi) data entry comp subtask III, run 1 20090228 A, v25i.xls	hrER (CERi) data entry comp subtask III, run 1 20090228 A, v25k.xls	20090228A		Marginally acceptable, nor. results slightly off
hrER (CERi) data entry comp subtask III, run 1 20090228 B, v25g.xls	hrER (CERi) data entry comp subtask III, run 1 20090228 B, v25k.xls	20090228B		file in v25g Marginally acceptable, nor. results slightly off
hrER (CERi) data entry comp subtask III, run 2 20090305 A, v25i.xls	ER (CERi) data entry comp subtask III, run 2 20090305 A, v25k.xls	20090305A		Marginally acceptable, nor. results slightly off
hrER (CERi) data entry comp subtask III, run 2 20090305 B, v25g.xls	hrER (CERi) data entry comp subtask III, run 2 20090305 B, v25k.xls	20090305B		file in v25g Marginally acceptable, nor. results slightly off
hrER (CERi) data entry comp subtask III, run 3 20090310 A, v25i.xls	hrER (CERi) data entry comp subtask III, run 3 20090310 A, v25k.xls	20090310A		Marginally acceptable, nor. results slightly off
hrER (CERi) data entry comp subtask III, run 3 20090310 B, v25g.xls	hrER (CERi) data entry comp subtask III, run 3 20090310 B, v25k.xls	20090310B		file in v25g Marginally acceptable, nor. results slightly off
hrER (CERi) data entry comp subtask III, run 4 20090401 A,	hrER (CERi) data entry comp subtask III, run 4 20090401 A,	20090401A		Marginally acceptable, nor. results slightly off

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Task Run ID	Acceptability of the run (Laboratory's judgment)	Comments
v25i.xls	v25k.xls			
hrER (CERI) data entry comp subtask III, run 4 20090401 B, v25h.xls	hrER (CERI) data entry comp subtask III, run 4 20090401 B, v25k.xls	20090401B		file in v25h Marginally acceptable, nor. results slightly off
hrER (CERI) data entry comp subtask III, run 5 20090415, v25h.xls	hrER (CERI) data entry comp subtask III, run 5 20090415, v25k.xls	20090415		ref. standards only
Subtask IV				
hrER (CERI) data entry comp subtask IV, run 1 20090903 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 1 20090903 A, v25k.xls	20090903A		
hrER (CERI) data entry comp subtask IV, run 1 20090903 B, v25i.xls	hrER (CERI) data entry comp subtask IV, run 1 20090903 B, v25k.xls	20090903B		
hrER (CERI) data entry comp subtask IV, run 2 20090905 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 2 20090905 A, v25k.xls	20090905A		
hrER (CERI) data entry comp subtask IV, run 2 20090905 B, v25i.xls	hrER (CERI) data entry comp subtask IV, run 2 20090905 B, v25k.xls	20090905B		
hrER (CERI) data entry comp subtask IV, run 3 20090907 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 3 20090907 A, v25k.xls	20090907A	Unacceptable	%total binding high
hrER (CERI) data entry comp subtask IV, run 3 20090907 B, v25i.xls	hrER (CERI) data entry comp subtask IV, run 3 20090907 B, v25k.xls	20090907B	Unacceptable	%total binding high
hrER (CERI) data entry comp subtask IV, run 4 20090930 A, v25i.xls	hrER (CERI) data entry comp subtask IV, run 4 20090930 A, v25k.xls	20090930A		Acceptable run
hrER (CERI) data entry comp subtask IV, run 4 20090930 B, v25i.xls	hrER (CERI) data entry comp subtask IV, run 4 20090930 B, v25k.xls	20090930B		Acceptable run

Note:

- The received data files are in v25g, v25h and v25i. For v25i files, See the general notes for the data conversion (above).

Table B-2. Lovelace, CERI

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments
Subtask I				
hrER (CERI)-comp_06-Jan-09-v25f.xls	hrER (CERI)-comp_06-Jan-09-v25k.xls	1/6/2009*		File is in v25f only SC, NE, DBP data
hrER (CERI)-comp_08-Jan-09-v25f.xls	hrER (CERI)-comp_08-Jan-09-v25k.xls	1/8/2009		only SC, NE, DBP data
hrER (CERI)-comp_13-Jan-09-v25f.xls	hrER (CERI)-comp_13-Jan-09-v25k.xls	1/13/2009		File is in v25f only SC, NE, DBP data
hrER (CERI)-comp_16-Jan-09-v25f.xls	hrER (CERI)-comp_16-Jan-09-v25k.xls	1/16/2009		only SC, NE, DBP data
hrER (CERI)-comp_31-Dec-08-v25f.xls	hrER (CERI)-comp_31-Dec-08, v25k.xls	12/31/2008	Unacceptable	File is in v25f this file was saved in "Unacceptable file" under subtask III folder
Subtask II				
hrER (CERI)-compST2_27-Feb-09-v25f.xls	hrER (CERI)-compST2_27-Feb-09, v25k.xls	2/27/2009*		File is in v25f
hrER (CERI)-compST2_05-Mar-09-v25f.xls	hrER (CERI)-compST2_05-Mar-09, v25k.xls	3/6/2009*		File name and run ID not matched. Run dated 3/6/2009
hrER(CERI)comp_27-Mar-09-v25h.xls	hrER(CERI)comp_27-Mar-09, v25k.xls	3/27/2009*		
hrER (CERI)-compST2_04-May-09-v25i.xls	hrER (CERI)-compST2_04-May-09-v25k.xls	5/4/2009		
hrER (CERI)-compST2_05-May-09-v25i.xls	hrER (CERI)-compST2_05-May-09-v25k.xls	5/5/2009		
hrER (CERI)-compST2_06-May-09-v25i.xls	hrER (CERI)-compST2_06-May-09-v25k.xls	5/6/2009*		
hrER (CERI)-compST2_07-May-09-v25i.xls	hrER (CERI)-compST2_07-May-09-v25k.xls	5/7/2009*		
hrER (CERI)-compST2_08-May-09-v25i.xls	hrER (CERI)-compST2_08-May-09-v25k.xls	5/8/2009		
hrER (CERI)-compST3_10-July-09-v25i.xls				this file should go to subtask III
hrER (CERI)-compST2_26-Feb-09-v25f.xls	hrER (CERI)-compST2_26-Feb-09, v25k.xls	2/26/2009	Unacceptable	File is in v25f this file was saved in "Unacceptable file" under subtask III folder
hrER (CERI)-compST2_03-Mar-09-v25f.xls	hrER (CERI)-compST2_03-Mar-09, v25k.xls	3/3/2009	Unacceptable	File is in v25f this file was saved in "Unacceptable file" under subtask III folder
hrER (CERI)-compST2_11-Mar-09-	hrER (CERI)-compST2_11-Mar-09,	3/11/2009*	Unacceptable	File is in v25f

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments
v25f.xls	v25k.xls			this file was saved in "Unacceptable file" under subtask III folder
hrER (CERl)-compST2_17-Mar-09-25f.xls	hrER (CERl)-compST2_17-Mar-09, v25k.xls	3/27/2009*		File is in v25f this file was saved in "Unacceptable file" under subtask III folder
Subtask III				
hrER (CERl)-compST3_01-Jun-09-v25i.xls	hrER (CERl)-compST3_01-Jun-09-v25k.xls	6/1/2009		
hrER (CERl)-compST3_04-Jun-09-v25i.xls	hrER (CERl)-compST3_04-Jun-09-v25k.xls	6/4/2009		
hrER (CERl)-compST3_08-Jun-09-v25i.xls	hrER (CERl)-compST3_08-Jun-09-v25k.xls	6/8/2009		
hrER (CERl)-compST3_11-Jun-09-v25i.xls	hrER (CERl)-compST3_11-Jun-09-v25k.xls	6/11/2009*		
hrER (CERl)-compST3_12-Jun-09-v25i.xls	hrER (CERl)-compST3_12-Jun-09-v25k.xls	6/12/2009*	Unacceptable	
hrER (CERl)-compST3_15-Jun-09-v25i.xls	hrER (CERl)-compST3_15-Jun-09-v25k.xls	6/15/2009		
hrER (CERl)-compST3_10-June-09-v25i.xls	hrER (CERl)-compST3_10-June-09-v25k.xls	6/10/2009		
hrER (CERl)-compST3_01-July-09-v25i.xls	hrER (CERl)-compST3_01-July-09-v25k.xls	7/1/2009		
hrER (CERl)-compST3_10-July-09-v25i.xls	hrER (CERl)-compST3_10-July-09-v25k.xls	7/10/2009		This file was originally included in STII by mistake.
Subtask 12				
hrER (CERl)-ABC Coded-Additional Dilution CERl only_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution CERl only_14-May-10-v25k.xls	5/14/2010*	Unacceptable	
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10a.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10a-v25k.xls	5/14/2010*	Unacceptable	
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10b(sovl ctol).xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10b(sovl ctol) -v25k.xls	5/14/2010	Unacceptable	
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10c(FWA solv ctl).xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10c(FWA solv ctl) -v25k.xls	5/14/2010	Unacceptable	
hrER (CERl)-ABC Coded-Additional	hrER (CERl)-ABC Coded-Additional	5/14/2010*	Unacceptable	

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments
Dilution+FWA Char A only_14-May-10.xls	Dilution+FWA Char A only_14-May-10-v25k.xls			Unacceptable, %total binding high
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char+CERl_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char+CERl_14-May-10-v25k.xls	5/14/2010*	Unacceptable	
hrER (CERl)-ABC Coded-Additional Dilution+FWA Char_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution+FWA Char_14-May-10-v25k.xls	5/14/2010*	Unacceptable	
hrER (CERl)-ABC Coded-Additional Dilution_14-May-10 CERl charcoal data with CERl SOLVENT control norm.xls	hrER (CERl)-ABC Coded-Additional Dilution_14-May-10 CERl charcoal data with CERl SOLVENT control norm-v25k.xls	5/14/2010*	Unacceptable	
hrER (CERl)-ABC Coded-Additional Dilution_14-May-10.xls	hrER (CERl)-ABC Coded-Additional Dilution_14-May-10-v25k.xls	5/14/2010*	Unacceptable	
hrER (CERl)-A dil variations_04Dec-09.xls	hrER (CERl)-A dil variations_04Dec-09-v25k.xls	12/4/2090*	Unacceptable	
hrER (CERl)-ABC Coded_08-Dec-09.xls	hrER (CERl)-ABC Coded_08-Dec-09-v25k.xls	12/8/2090*	Unacceptable	
hrER (CERl)-ABC Coded_12-Nov-09.xls	hrER (CERl)-ABC Coded_12-Nov-09-v25k.xls	11/12/2009		
hrER (CERl)-ABC Coded_20-Oct-09 JCS.xls	hrER (CERl)-ABC Coded_20-Oct-09 JCS-v25k.xls	10/20/2009*	Unacceptable	
hrER (CERl)-ABC Coded_23-Sep-09.xls	hrER (CERl)-ABC Coded_23-Sep-09-v25k.xls	9/23/2009	Unacceptable	
hrER (CERl)-ABC Coded_27-Oct-09.xls	hrER (CERl)-ABC Coded_27-Oct-09-v25k.xls	10/27/2009*	Unacceptable	
hrER (CERl)-ABC Coded_29-Jan-10.xls	hrER (CERl)-ABC Coded_29-Jan-10-v25k.xls	1/29/2009*	Unacceptable	
hrER (CERl)-ABC Coded_29-April-10.xls	hrER (CERl)-ABC Coded_29-April-10-v25k.xls	4/29/2009*	Unacceptable	
hrER (CERl)-ABC Coded_7-Apr-10 #1.xls	hrER (CERl)-ABC Coded_7-Apr-10 #1 v25k.xls,	4/7/2009	Unacceptable	
hrER (CERl)-ABC Coded_7-Apr-10 #2.xls,	hrER (CERl)-ABC Coded_7-Apr-10 #2 v25k.xls	4/7/2009	Unacceptable	
hrER (CERl)-ABC Coded_7-Apr-10 #3+triton.xls	hrER (CERl)-ABC Coded_7-Apr-10 #3+triton v25k.xls,	4/7/2009	Unacceptable	

Note:

- The received data files were in v25f and v25i. For v25i files, see the general notes for the data conversion (above) for changes to the specific control and negative control
- For some data runs, the solvent control wells are low and therefore the % bound are extremely high (with the highest above 140): the run is marked with an “*”.

Table B-3. Missouri, CERI

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments
Subtask I				
hrER (CERI) data entry 4001, v25g 2m.xls	hrER (CERI) data entry 4001, v25k 2m.xls	4001-2m	Unacceptable	File is in v25g Unacceptable folder Initial shakedown runs
hrER (CERI) data entry 4001 final, v25g.xls	hrER (CERI) data entry 4001 final, v25k.xls	4001	Unacceptable	File is in v25g Unacceptable folder Initial shakedown runs
hrER (CERI) data entry 4002 final, v25g.xls	hrER (CERI) data entry 4002 final, v25k.xls	4002	Unacceptable	File is in v25g Unacceptable folder Initial shakedown runs
hrER (CERI) data entry 4003 final, v25g.xls	hrER (CERI) data entry 4003 final, v25k.xls	4003		File is in v25g Acceptable run, later replaced
hrER (CERI) data entry 4005 final, v25g.xls	hrER (CERI) data entry 4005 final, v25k.xls	4005		File is in v25g Acceptable run, later replaced
hrER (CERI) data entry 4006 final, v25g.xls	hrER (CERI) data entry 4006 final, v25k.xls	4006		File is in v25g Acceptable run, later replaced
hrER (CERI) data entry 4007 final, v25g.xls	hrER (CERI) data entry 4007 final, v25k.xls	4007		File is in v25g Acceptable run, later replaced
hrER (CERI) data entry 5003 stds only w2, v25g.xls	hrER (CERI) data entry 5003 stds only w2, v25k.xls	5003		File is in v25g Acceptable run with improving pipetting
hrER (CERI) data entry 5005 stds only w1, v25h.xls	hrER (CERI) data entry 5005 stds only w1, v25k.xls	5005		File is in v25g Acceptable run with improving pipetting
hrER (CERI) data entry 5007 stds only, v25g.xls	hrER (CERI) data entry 5007 stds only, v25k.xls	5007		File is in v25g Acceptable run with improving pipetting
hrER (CERI) data entry 5010 stds only w2, v25g.xls	hrER (CERI) data entry 5010 stds only w2, v25k.xls	5010		File is in v25g Acceptable run with improving pipetting
Subtask II				
hrER (CERI) data entry 5006, v25g no del.xls	hrER (CERI) data entry 5006, v25g no del, v25k.xls	5006		File is in v25g
hrER (CERI) data entry 5008 default, v25g.xls	hrER (CERI) data entry 5008 default, v25k.xls	5008		File is in v25g
hrER (CERI) data entry 5009, v25g no	hrER (CERI) data entry 5009, v25g no	5009		File is in v25g

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments
deletions.xls	deletions, v25k.xls			
Subtask III				
hrER (CERI) data entry 1-7, 6001 final w2, v25i.xls	hrER (CERI) data entry 1-7, 6001 final w2, v25k.xls	6001	Unacceptable	Shakedown run, TC1-7 Unacceptable folder
hrER (CERI) data entry 1-7, 6002 final w2, v25i.xls	hrER (CERI) data entry 1-7, 6002 final w2, v25k.xls	6002	Unacceptable	Shakedown run, TC1-7 Unacceptable folder
hrER (CERI) data entry 1-7, 6005 final w2, v25i.xls	hrER (CERI) data entry 1-7, 6005 final w2, v25k.xls	6005		TC1-7
hrER (CERI) data entry 1-7, 6006 final w2, v25i.xls	hrER (CERI) data entry 1-7, 6006 final w2, v25k.xls	6006		TC1-7
hrER (CERI) data entry 1-7, 6007 final w2, v25i.xls	hrER (CERI) data entry 1-7, 6007 final w2, v25k.xls	6007		TC1-7
hrER (CERI) data entry 8-14, 6009 final w2, v25i.xls	hrER (CERI) data entry 8-14, 6009 final w2, v25k.xls	6009		TC8-14, later replaced
hrER (CERI) data entry 8-14, 6009 final b w2, v25i.xls	hrER (CERI) data entry 8-14, 6009 final b w2, v25k.xls	6009b		TC8-14, later replaced
hrER (CERI) data entry 8-14, 6010 final w2, v25i.xls	hrER (CERI) data entry 8-14, 6010 final w2, v25k.xls	6010		TC8-14, later replaced
hrER (CERI) data entry 8-14, 6011 final w2, v25i.xls	hrER (CERI) data entry 8-14, 6011 final w2, v25k.xls	6011		TC8-14, later replaced
hrER (CERI) data entry, 6502 final w2, v25i.xls	hrER (CERI) data entry, 6502 final w2, v25k.xls	6502		TC8-14, Improved DMSO control
hrER (CERI) data entry, 6503 final w2, v25i.xls	hrER (CERI) data entry, 6503 final w2, v25k.xls	6503		TC8-14, Improved DMSO control
hrER (CERI) data entry, 6504 final w2, v25i.xls	hrER (CERI) data entry, 6504 final w2, v25k.xls	6504		TC8-14, Improved DMSO control
Subtask IV				
hrER (CERI) data entry, 2206 w4b, v25i.xls	hrER (CERI) data entry, 2206 w4b, v25k.xls	2206		Acceptable run TC15-22
hrER (CERI) data entry, 2210 w4b, v25i.xls	hrER (CERI) data entry, 2210 w4b, v25k.xls	2210		Acceptable run TC15-22
hrER (CERI) data entry, 2211 w4b, v25i.xls	hrER (CERI) data entry, 2211 w4b, v25k.xls	2211		Acceptable run TC15-22
hrER (CERI) data entry, 2301 w4b, v25i.xls	hrER (CERI) data entry, 2301 w4b, v25k.xls	2301		Acceptable run TC23-30
hrER (CERI) data entry, 2302 w4b, v25i.xls	hrER (CERI) data entry, 2302 w4b, v25k.xls	2302		Acceptable run TC23-30

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments
hrER (CERI) data entry, 2305 w4b, v25i.xls	hrER (CERI) data entry, 2305 w4b, v25k.xls	2305		Acceptable run TC23-30

Note:

- The received data files were in v25g and v25i. For v25i files, See the general notes for the data conversion (above).
- No data for the following test runs: 4004, 5001, 5002 5004, 5011, 6003, 6004, 6012, 6505, 2201 – 2205, 2207-2209, 2303, and 2304.
- When opening an original file (file from the lab), a warning message pops up “File error: data may have been lost”. No specific steps were taken to address this problem. It was assumed that data in the original file were not corrupted and could be used.
- Some test runs were commented to be “acceptable runs and later replaced”. Not sure what this meant

Table B-4. Freberger, CERI

Files Received	Files Converted (V39 for FWA, V25i for CERI)	Test Run ID	Acceptability	Comments (all original files are in v25g)
Subtask II				
hrER (CERI) data entry Competitiv A, v25g.xls	hrER (CERI) data entry Competitiv A, v25kmod.xls	A		See the notes below
hrER (CERI) data entry Competitiv B, v25g.xls	hrER (CERI) data entry Competitiv B, v25kmod.xls	B		See the notes below
hrER (CERI) data entry Competitiv C, v25g.xls	hrER (CERI) data entry Competitiv C, v25kmod.xls	C		See the notes below
hrER (CERI) data entry Competitiv D, v25g.xls	hrER (CERI) data entry Competitiv D, v25kmod.xls	D		See the notes below
hrER (CERI) data entry Competitiv E, v25g.xls	hrER (CERI) data entry Competitiv E, v25kmod.xls	E		See the notes below
hrER (CERI) data entry Competitiv F, v25g.xls	hrER (CERI) data entry Competitiv F, v25kmod.xls	F		See the notes below
hrER (CERI) data entry Competitiv G, v25g.xls	hrER (CERI) data entry Competitiv G, v25kmod.xls	G		See the notes below
Subtask III				
hrER (CERI) data entry CODE A1, v25g.xls	hrER (CERI) data entry CODE A1, v25kmod.xls	CODE A1		See the notes below
hrER (CERI) data entry CODE A2, v25g.xls	hrER (CERI) data entry CODE A2, v25kmod.xls	CODE A2		See the notes below
hrER (CERI) data entry CODE A3, v25g.xls	hrER (CERI) data entry CODE A3, v25kmod.xls	CODE A3		See the notes below
hrER (CERI) data entry CODE B1, v25g.xls	hrER (CERI) data entry CODE B1, v25kmod.xls	CODE B1		See the notes below
hrER (CERI) data entry CODE B2, v25g.xls	hrER (CERI) data entry CODE B2, v25kmod.xls	CODE B2		See the notes below
hrER (CERI) data entry CODE B3, v25g.xls	hrER (CERI) data entry CODE B3, v25kmod.xls	CODE B3		See the notes below
hrER (CERI) data entry CODE C1, v25g.xls	hrER (CERI) data entry CODE C1, v25kmod.xls	CODE C1		See the notes below
hrER (CERI) data entry CODE C2, v25g.xls	hrER (CERI) data entry CODE C2, v25kmod.xls	CODE C1		See the notes below
hrER (CERI) data entry CODE C3, v25g.xls	hrER (CERI) data entry CODE C3, v25kmod.xls	CODE C1		See the notes below

Note:

- The received data files were in v25g. See the general notes for the data conversion (above).
- The number of wells was not given in any of the Excel files.
- According to the emails from the Freyberger lab and EPA, the lab could only get DPM counts for 50 uL volume and then they multiplied the DPM counts by 4 instead of by 2 to come up with DPM counts for 100uL. Also there was an error for entering the volume of filtrate counted (cell P16). It is supposed to be 50 uL instead of 30 uL. Thus the template v25k was modified to fix the problems in the original received data files. The new data files were thus labeled as "v25kmod". Here were the detail steps in the modified v25k:
 - o changed volume from 30 ul to 50ul (cell P16).
 - o copied column DPM values (P33-397) and pasted them into column O (O33-397).
 - o replaced the DPM values (P33-397) by half by multiplying a factor of 0.5 to the O column (using function IF(O33<>0,0.5*O33,"")).

Table B-5. JapanCERI, CERI

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Tast Run ID	Acceptability	Comments
Subtask I				
hrER (CERI)competitive091224_01, v25i.xls	hrER (CERI)competitive091224_01, v25k.xls	091224		
hrER (CERI)competitive100107_02, v25i.xls	hrER (CERI)competitive100107_02, v25k.xls	100107		
hrER (CERI)competitive100108_03, v25i.xls	hrER (CERI)competitive100108_03, v25k.xls	100108		
Subtask II				
hrER (CERI)competitive100119_01, v25i.xls	hrER (CERI)competitive100119_01, v25k.xls	100119		
hrER (CERI)competitive100126_02, v25i.xls	hrER (CERI)competitive100126_02, v25k.xls	100126		
hrER (CERI)competitive100129_03, v25i.xls	hrER (CERI)competitive100129_03, v25k.xls	100129		
Subtask III				
hrER (CERI)competitive100203_01, v25i.xls	hrER (CERI)competitive100203_01, v25k.xls	100203		
hrER (CERI)competitive100208_02, v25i.xls	hrER (CERI)competitive100208_02, v25k.xls	100208		
hrER (CERI)competitive100215_03, v25i.xls	hrER (CERI)competitive100215_03, v25k.xls	100215		
hrER (CERI)competitive100223_04, v25i.xls	hrER (CERI)competitive100223_04, v25k.xls	100223		
hrER (CERI)competitive100224_05, v25i.xls	hrER (CERI)competitive100224_05, v25k.xls	100224		
hrER (CERI)competitive100225_06, v25i.xls	hrER (CERI)competitive100225_06, v25k.xls	100225		
hrER (CERI)competitive100226_07, v25i.xls	hrER (CERI)competitive100226_07, v25k.xls	100226		
hrER (CERI)competitive100301_08, v25i.xls	hrER (CERI)competitive100301_08, v25k.xls	100301		
hrER (CERI)competitive100303_09, v25i.xls	hrER (CERI)competitive100303_09, v25k.xls	100303		
hrER (CERI)competitive100305_10, v25i.xls	hrER (CERI)competitive100305_10, v25k.xls	100305		

- Note: The received data files were in v25g. See the general notes for the data conversion (above).

FWA

Each individual FWA data file was converted into the v39 template using copy and paste as discussed above. If data were already in the v39 template, then no data conversion was necessary. Data for some laboratories may require specific steps due to the unique circumstances. The data files and the corresponding converted files, including the specific data conversion steps, are listed below for each laboratory.

Table B-6. Ceetox, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments (All files are in v39)
Subtask I				
hrER (FWA) data entry 20081123 run 2, v39.xls	hrER (FWA) data entry 20081123 run 2, v39.xls	20081123		
hrER (FWA) data entry 20081124 run 3, v39.xls	hrER (FWA) data entry 20081124 run 3, v39.xls	20081124		
hrER (FWA) data entry 20081218 run 4, v39.xls	hrER (FWA) data entry 20081218 run 4, v39.xls	20081128		
Subtask II				
hrER (FWA) L2, sub II data entry 20090124 run 1, v39.xls	hrER (FWA) L2, sub II data entry 20090124 run 1, v39.xls	20090124	Unacceptable	dextran charcoal problem
hrER (FWA) L2, sub II data entry 20090128 run 2, v39.xls	hrER (FWA) L2, sub II data entry 20090128 run 2, v39.xls	20090128	Unacceptable	dextran charcoal problem
hrER (FWA) L2, sub II data entry 20090202 run 3, v39.xls	hrER (FWA) L2, sub II data entry 20090202 run 3, v39.xls	20090202	Unacceptable	dextran charcoal problem
hrER (FWA) L2, sub II data entry 20090213 run 3b-, v39.xls	hrER (FWA) L2, sub II data entry 20090213 run 3b-, v39.xls	20090213_b	?	Marginally acceptable, ref. standards omitted (listed in the "Unacceptable Runs" folder)
hrER (FWA) L2, sub II data entry 20090223 run 4, v39.xls	hrER (FWA) L2, sub II data entry 20090223 run 4, v39.xls	20090223		sonication used
hrER (FWA) L2, sub II data entry 20090307 run 5, v39.xls	hrER (FWA) L2, sub II data entry 20090307 run 5, v39.xls	20090307		sonication used
hrER (FWA) L2, sub II data entry 20090326 run 6, v39.xls	hrER (FWA) L2, sub II data entry 20090326 run 6, v39.xls	20090326		sonication used
hrER (FWA) L2, sub II data entry 20090124 run 1 BAD, v39.xls			Unacceptable	In folder "Unacceptable Runs" Bad run, discard

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments (All files are in v39)
hrER (FWA) L2, sub II data entry 20090128 run 2 BAD, v39.xls			Unacceptable	In folder "Unacceptable Runs" Bad run, discard
hrER (FWA) L2, sub II data entry 20090202 run 3 BAD, v39.xls			Unacceptable	In folder "Unacceptable Runs" Bad run, discard
hrER (FWA) L2, sub II data entry 20090213 run 4-2, v39TEST.xls	hrER (FWA) L2, sub II data entry 20090213 run 4-2, v39TEST.xls	20090213TEST_2	Unacceptable	In folder "Unacceptable Runs"
hrER (FWA) L2, sub II data entry 20090213 run 4, v39TEST.xls	hrER (FWA) L2, sub II data entry 20090213 run 4, v39TEST.xls	20090213 TEST	Unacceptable	In folder "Unacceptable Runs""
hrER (FWA) L2, sub II data entry 20090223 run 5, v39 GOOD run4.xls	hrER (FWA) L2, sub II data entry 20090223 run 5, v39 GOOD run4.xls	20090223GOOD	Unacceptable	In folder "Unacceptable Runs"
Subtask III				
hrER (FWA) L2, sub III data entry 20090418 run 1 DMSO.xls	hrER (FWA) L2, sub III data entry 20090418 run 1 DMSO.xls	20090418 DMSO		TC10 only in DMSO5
hrER (FWA) L2, sub III data entry 20090418 run 1.xls	hrER (FWA) L2, sub III data entry 20090418 run 1.xls	20090418		test chemicals in ethanol9
hrER (FWA) L2, sub III data entry 20090418 run 1B.xls	hrER (FWA) L2, sub III data entry 20090418 run 1B.xls	20090418B		test chemicals in ethanol9
hrER (FWA) L2, sub III data entry 20090426 run 2.xls	hrER (FWA) L2, sub III data entry 20090426 run 2.xls	20090426		test chemicals in ethanol9
hrER (FWA) L2, sub III data entry 20090426 run 2B.xls	hrER (FWA) L2, sub III data entry 20090426 run 2B.xls	20090426B		test chemicals in ethanol9
hrER (FWA) L2, sub III data entry 20090505 run 3 chem 14.xls	hrER (FWA) L2, sub III data entry 20090505 run 3 chem 14.xls	20090505chem14		test chemicals in ethanol9
hrER (FWA) L2, sub III data entry 20090505 run 3.xls	hrER (FWA) L2, sub III data entry 20090505 run 3.xls	20090505		test chemicals in ethanol9
hrER (FWA) L2, sub III data entry 20090507 run 2 DMSO.xls	hrER (FWA) L2, sub III data entry 20090507 run 2 DMSO.xls	20090505 DMSO		TC10 only in DMSO5
hrER (FWA) L2, sub III data entry 20090514 run 3 DMSO.xls	hrER (FWA) L2, sub III data entry 20090514 run 3 DMSO.xls	20090514 DMSO		TC10 only in DMSO5
Subtask IV				
hrER (FWA) L2, sub IV data entry 20090911 run 1 A v39.xls	hrER (FWA) L2, sub IV data entry 20090911 run 1 A v39.xls	20090911A		
hrER (FWA) L2, sub IV data entry 20090911 run 1 B v39.xls	hrER (FWA) L2, sub IV data entry 20090911 run 1 B v39.xls	20090911B		
hrER (FWA) L2, sub IV data entry	hrER (FWA) L2, sub IV data entry	20090914		

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments (All files are in v39)
20090914 run 2 A v39 .xls	20090914 run 2 A v39 .xls			
hrER (FWA) L2, sub IV data entry 20090914 run 2 B v39 .xls	hrER (FWA) L2, sub IV data entry 20090914 run 2 B v39 .xls	20090914B		
hrER (FWA) L2, sub IV data entry 20090917 run 3 A v39 .xls	hrER (FWA) L2, sub IV data entry 20090917 run 3 A v39 .xls	20090917A		
hrER (FWA) L2, sub IV data entry 20090917 run 3 B v39 .xls	hrER (FWA) L2, sub IV data entry 20090917 run 3 B v39 .xls	20090917B		

Note:

- The received data files were all in v39. No changes were made to them.
- Run on 11/22/2008 (subtask I) was listed as unacceptable and no file was available for this run.
- The data entry files for run 1, 2, and 3 with the designation "bad" should be discarded. They are the same as the run 1, 2, and 3 files without the "bad" designation. Runs 1, 2, and 3 had problems with the charcoal and were unacceptable. Runs 4, 5, and 6 used an improved sonication technique and were acceptable and satisfied the FWA subtask II component of the study.
- Multiple data files were available for some runs, as listed as "A" and "B". Usually B is a continuation of the chemicals run in A. E.g., 20090017A has unknowns 1-12 and B has unknowns 13-16 listed

Table B-7. Lovelace, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments
Subtask I				
hrER (FWA) comp_03Dec08, v39.xls	hrER (FWA) comp_03Dec08, v39.xls	03Dec08		Marginally acceptable, high variability
hrER (FWA) comp_09Dec08, v39.xls	hrER (FWA) comp_09Dec08, v39.xls	09Dec08	Unacceptable	dbp result poor
hrER (FWA) comp_13Dec08, v39.xls	hrER (FWA) comp_13Dec08, v39.xls	13Dec08		
hrER (FWA) comp_16Dec08, v39.xls	hrER (FWA) comp_16Dec08, v39.xls	16Dec08		Marginally Acceptable, steep slope for estradiol
hrER (FWA) comp_19Dec08, v39.xls	hrER (FWA) comp_19Dec08, v39.xls	19Dec08		Marginally acceptable, nor. not run
hrER (FWA) comp_27-Jan-09.xls	hrER (FWA) comp_27-Jan-09.xls	27Jan09		
Subtask II				
G2 hrER (FWA) compST2 DMSO_14-Feb-09.xls	G2 hrER (FWA) compST2 DMSO_14-Feb-09.xls	14Feb09DMSO		using DMSO as solvent
G2 hrER (FWA) compST2 DMSO_17-Feb-09.xls	G2 hrER (FWA) compST2 DMSO_17-Feb-09.xls	17Feb09DMSO		using DMSO as solvent
G2 hrER (FWA) compST2 DMSO_19-Feb-09.xls	G2 hrER (FWA) compST2 DMSO_19-Feb-09.xls	19Feb09DMSO		using DMSO as solvent
hrER (FWA) compST2 EtOH_06-Feb-09 corrected.xls	hrER (FWA) compST2 EtOH_06-Feb-09 corrected.xls	06Feb09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST2 EtOH_09-Feb-09 corrected.xls	hrER (FWA) compST2 EtOH_09-Feb-09 corrected.xls	09Feb09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST2 EtOH_24-Feb-09 corrected.xls	hrER (FWA) compST2 EtOH_24-Feb-09 corrected.xls	24Feb09EtOH		
hrER (FWA) compST2 EtOH_16-April-09 corrected.xls	hrER (FWA) compST2 EtOH_16-April-09 corrected.xls	16April09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST2 EtOH_24-April-09 corrected.xls	hrER (FWA) compST2 EtOH_24-April-09 corrected.xls	24April09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST2 EtOH_28-April-09 corrected.xls	hrER (FWA) compST2 EtOH_28-April-09 corrected.xls	28April09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST2 EtOH_13_May-09 corrected.xls	hrER (FWA) compST2 EtOH_13_May-09 corrected.xls	13May09EtOH		Acceptable runs for certain chemicals

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments
hrER (FWA) compST2 EtOH_28-May-09 corrected.xls	hrER (FWA) compST2 EtOH_28-May-09 corrected.xls	28May09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST2 DMSO_30-Jan-09 ERR.xls	hrER (FWA) compST2 DMSO_30-Jan-09 ERR.xls	30Jan09DMSO	Unacceptable	In folder "Unacceptable Runs" under subtask III estradiol result poor
hrER (FWA) compST2 EtOH 12-Feb-09.xls	hrER (FWA) compST2 EtOH 12-Feb-09.xls	12Feb09EtOH	Unacceptable	In folder "Unacceptable Runs" under subtask III estradiol result poor
hrER (FWA) compST2 EtOH_01-May-09 corrected.xls	hrER (FWA) compST2 EtOH_01-May-09 corrected.xls	01May09EtOH	Unacceptable	dbp result poor In folder "Unacceptable Runs" under subtask III
hrER (FWA) compST2 EtOH_10-April-09 ERR.xls	hrER (FWA) compST2 EtOH_10-April-09 ERR.xls	10April09EtOH	Unacceptable	overall results poor In folder "Unacceptable Runs" under subtask III
hrER (FWA) compST2 EtOH_21-April-09 ERR.xls	hrER (FWA) compST2 EtOH_21-April-09 ERR.xls	21April09EtOH	Unacceptable	estradiol result poor In folder "Unacceptable Runs" under subtask III
Subtask III				
hrER (FWA) compST3-coded EtOH 10-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 10-Mar-09 CORRECTED CONC.xls	10Mar09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 13-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 13-Mar-09 CORRECTED CONC.xls	13Mar09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 24-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 24-Mar-09 CORRECTED CONC.xls	24Mar09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 31-Mar-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded EtOH 31-Mar-09 CORRECTED CONC.xls	31Mar09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 17-Jun-09.xls	hrER (FWA) compST3-coded EtOH 17-Jun-09.xls	17Jun09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 23-Jun-09.xls	hrER (FWA) compST3-coded EtOH 23-Jun-09.xls	23Jun09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 25-Jun-09.xls	hrER (FWA) compST3-coded EtOH 25-Jun-09.xls	25Jun09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 30-Jun-09.xls	hrER (FWA) compST3-coded EtOH 30-Jun-09.xls	30Jun09EtOH		Acceptable runs for certain chemicals
hrER (FWA) compST3-coded EtOH 20-Mar-09 ERR.xls	hrER (FWA) compST3-coded EtOH 20-Mar-09 ERR.xls	20Mar09EtOH	Unacceptable	estradiol result poor In folder "Unacceptable Runs" under subtask III

Files Received	Files Converted (V39 for FWA, V25k for CERl)	Test Run ID	Acceptability	Comments
hrER (FWA) compST3-coded EtOH 19-Jun-09.xls	hrER (FWA) compST3-coded EtOH 19-Jun-09.xls	19Jun09EtOH	Unacceptable	Poor TC results In folder "Unacceptable Runs" under subtask III
hrER (FWA) compST3-coded DMSO 03-May-09 CORRECTED CONC.xls	hrER (FWA) compST3-coded DMSO 03-May-09 CORRECTED CONC.xls	03May09DMSO		Acceptable runs for TC10 in DMSO (multiple files for this run)
hrER (FWA) compST3-coded DMSO 03-May-09-2 CORRECTED CONC.xls	hrER (FWA) compST3-coded DMSO 03-May-09-2 CORRECTED CONC.xls	03May09DMSO_2		Acceptable runs for TC10 in DMSO
hrER (FWA) compST3-coded DMSO 03-May-09-3 CORRECTED CONC.xls	hrER (FWA) compST3-coded DMSO 03-May-09-3 CORRECTED CONC.xls	03May09DMSO_3		Acceptable runs for TC10 in DMSO
Subtask 12				
hrER (FWA) comp-ABC coded EtOH 06-Oct-09.xls	hrER (FWA) comp-ABC coded EtOH 06-Oct-09.xls	06Oct09 EtOH	Unacceptable	Unacceptable run, low binding results
hrER (FWA) comp-ABC coded EtOH 09-Oct-09.xls	hrER (FWA) comp-ABC coded EtOH 09-Oct-09.xls	09Oct09 EtOH		Marginal acceptable run
hrER (FWA) comp-ABC coded EtOH 14-Oct-09.xls	hrER (FWA) comp-ABC coded EtOH 14-Oct-09.xls	14Oct09 EtOH	Unacceptable	Unacceptable run, low binding results
hrER (FWA) comp-ABC coded EtOH 25-Sep-09.xls	hrER (FWA) comp-ABC coded EtOH 25-Sep-09.xls	25Sep09 EtOH		
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 09-July-10 using BUFFER control.xls	hrER (FWA) comp-ABC + 8,9,11, 12, 14 coded EtOH 09-July-10 using BUFFER control.xls	09July10 EtOH_Buffer		Marginal acceptable run
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 09-July-10.xls	hrER (FWA) comp-ABC + 8,9,11, 12, 14 coded EtOH 09-July-10.xls	09July10 EtOH		Marginal acceptable run
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10.xls	hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10.xls	19Aug10EtOH	Unacceptable	Unacceptable run, low binding results
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10 using BUFFER control.xls	hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10 using BUFFER control.xls	19Aug10EtOH_Buffer	Unacceptable	Unacceptable run, low binding results

- The received data files were all in v39. No changes were made to them.
- Multiple data files were available for some runs, as listed as "A" and "B". Usually B is a continuation of the chemicals run in A.

Table B-8. Missouri, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments
Subtask I				
hrER (FWA) data entry 3005 final, v39mod.xls	hrER (FWA) data entry 3005 final, v39mod.xls	3005	Unacceptable	dilution problems
hrER (FWA) data entry 3006 final, v39mod.xls	hrER (FWA) data entry 3006 final, v39mod.xls	3006	Unacceptable	dilution problems
hrER (FWA) data entry 3008 final, v39mod.xls	hrER (FWA) data entry 3008 final, v39mod.xls	3008	Unacceptable	dilution problems
hrER (FWA) data entry 7003 final, v39mod.xls	hrER (FWA) data entry 7003 final, v39mod.xls	7003	?	Listed as acceptable, but data file is in unacceptable run folder?
hrER (FWA) data entry 7004, v39mod.xls	hrER (FWA) data entry 7004, v39mod.xls	7004	?	Listed as acceptable, but data file is in unacceptable run folder?
hrER (FWA) data entry 7005 final, v39mod.xls	hrER (FWA) data entry 7005 final, v39mod.xls	7005		
hrER (FWA) data entry 7006 final, v39mod.xls	hrER (FWA) data entry 7006 final, v39mod.xls	7006		
hrER (FWA) data entry 7007 final, v39mod.xls	hrER (FWA) data entry 7007 final, v39mod.xls	7007		
Subtask II				
hrER (FWA) data entry 9003 final2, v39mod.xls	hrER (FWA) data entry 9003 final2, v39mod.xls	9003		
hrER (FWA) data entry 9004 final3, v39mod.xls	hrER (FWA) data entry 9004 final3, v39mod.xls	9004		
hrER (FWA) data entry 9005 final2, v39mod.xls	hrER (FWA) data entry 9005 final2, v39mod.xls	9005		
hrER (FWA) data entry 9007 final2, v39mod.xls	hrER (FWA) data entry 9007 final2, v39mod.xls	9007		
Subtask III				
hrER (FWA) data entry 8001 final2, v39mod revised.xls	hrER (FWA) data entry 8001 final2, v39mod revised.xls	8001		TC 8-16
hrER (FWA) data entry 8002 final2, v39mod revised.xls	hrER (FWA) data entry 8002 final2, v39mod revised.xls	8002		TC 8-16
hrER (FWA) data entry 8003 final2 w4, v39mod.xls	hrER (FWA) data entry 8003 final2 w4, v39mod.xls	8003		TC 8-16
hrER (FWA) data entry 8004 final2, v39mod.xls	hrER (FWA) data entry 8004 final2, v39mod.xls	8004		TC 8-16
hrER (FWA) data entry 8005 final, v39mod.xls	hrER (FWA) data entry 8005 final, v39mod.xls	8005		TC 8-16
hrER (FWA) data entry 8101 final2 w6, v39mod.xls	hrER (FWA) data entry 8101 final2 w6, v39mod.xls	8101		TC 1-7
hrER (FWA) data entry 8102 final2 w6, v39mod.xls	hrER (FWA) data entry 8102 final2 w6, v39mod.xls	8102		TC 1-7
hrER (FWA) data entry 8107 final2 w6, v39mod.xls	hrER (FWA) data entry 8107 final2 w6, v39mod.xls	8107		TC 1-7
hrER (FWA) data entry 8108 final2 w6, v39mod.xls	hrER (FWA) data entry 8108 final2 w6, v39mod.xls	8108		TC 1-7

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Test Run ID	Acceptability	Comments
hrER (FWA) data entry 8201 final2 w6, v39mod.xls	hrER (FWA) data entry 8201 final2 w6, v39mod.xls	8201DMSO		DMSO TC10
hrER (FWA) data entry 8202 final2 w6, v39mod.xls	hrER (FWA) data entry 8202 final2 w6, v39mod.xls	8202 DMSO		DMSO TC10
hrER (FWA) data entry 8203 final2 w6, v39mod.xls	hrER (FWA) data entry 8203 final2 w6, v39mod.xls	8203 DMSO		DMSO TC10
Subtask IV				
hrER (FWA) data entry 1101 w6, v39mod.xls	hrER (FWA) data entry 1101 w6, v39mod.xls	1101		TC15-22
hrER (FWA) data entry 1102 w6, v39mod.xls	hrER (FWA) data entry 1102 w6, v39mod.xls	1102		TC23-30
hrER (FWA) data entry 1103 w6, v39mod.xls	hrER (FWA) data entry 1103 w6, v39mod.xls	1103		TC15-22
hrER (FWA) data entry 1104 w6, v39mod.xls	hrER (FWA) data entry 1104 w6, v39mod.xls	1104		TC23-30
hrER (FWA) data entry 1105 w6, v39mod.xls	hrER (FWA) data entry 1105 w6, v39mod.xls	1105		TC15-22
hrER (FWA) data entry 1106 w6, v39mod.xls	hrER (FWA) data entry 1106 w6, v39mod.xls	1106		TC15-22
hrER (FWA) data entry 1107 w6, v39mod.xls	hrER (FWA) data entry 1107 w6, v39mod.xls	1107		TC23-30
hrER (FWA) data entry 1111 w6, v39mod.xls	hrER (FWA) data entry 1111 w6, v39mod.xls	1111		TC15-22
hrER (FWA) data entry 1108 w6, v39mod.xls	hrER (FWA) data entry 1108 w6, v39mod.xls	1108	Unacceptable	Ref. standards problem, TC15-22
hrER (FWA) data entry 1109 w6, v39mod.xls	hrER (FWA) data entry 1109 w6, v39mod.xls	1109	Unacceptable	Ref. standards problem, TC22-30
hrER (FWA) data entry 1110 w6, v39mod.xls	hrER (FWA) data entry 1110 w6, v39mod.xls	1110	Unacceptable	Ref. standards problem, TC15-22

Note:

- The received data files were all in v39mod. They were assumed to be a version of v39. No changes were made to the files.
- No data for the following test runs: 3007, 6012, 7001, 7002, 9001, 9002, 9006, 9008, 8006, 8007, 8103, 8104, 8105 and 8106.
- Two runs (7003 and 7004) were indicated as acceptable runs but were stored in “unacceptable run” folder.

Table B-9. Freyberger, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERI)	Tast Run ID	Acceptability	Comments (All original files are in v37)
Subtask II				
hrER_FWA_Competitiv A.xls	hrER_FWA_Competitiv A, v39mod.xls	A		
hrER_FWA_Competitiv B.xls	hrER_FWA_Competitiv B, v39mod.xls	B		
hrER_FWA_Competitiv C.xls	hrER_FWA_Competitiv C, v39mod.xls	C	Unacceptable	
hrER_FWA_Competitiv D.xls	hrER_FWA_Competitiv D, v39mod.xls	D		
hrER_FWA_Competitiv E (DMSO).xls	hrER_FWA_Competitiv E (DMSO) , v39mod.xls	E		
hrER_FWA_Competitiv F (DMSO).xls	hrER_FWA_Competitiv F (DMSO) , v39mod.xls	F		
hrER_FWA_Competitiv G (DMSO).xls	hrER_FWA_Competitiv G (DMSO) , v39mod.xls	G		
Subtask III				
hrER_FWA_Code A1.xls	hrER_FWA_Code A1, v39mod.xls	Code A1		
hrER_FWA_Code A2.xls	hrER_FWA_Code A2, v39mod.xls	Code A2		
hrER_FWA_Code A.xls	hrER_FWA_Code A, v39mod.xls	Code A		
hrER_FWA_Code AB.xls	hrER_FWA_Code AB, v39mod.xls	Code AB		
hrER_FWA_Code B1.xls	hrER_FWA_Code B1, v39mod.xls	Code B1		
hrER_FWA_Code B2.xls	hrER_FWA_Code B2, v39mod.xls	Code B2		
hrER_FWA_Code B.xls	hrER_FWA_Code B, v39mod.xls	Code B		

Note:

- The received data files were all in v37.
- Column named "Competitor Final Concentration (M)" (column N) is in an increasing order while the v39 template is in the decreasing order. Thus the block "Competitor Final Concentration (M)" in version v39 template was first unlocked, then rows 33-421 for columns A through P in the received files were placed in the new "v39" Excel files first, followed by rows 6-15 for column P. Lastly, rows 10-12 of column S were placed in the new "v39" Excel file.
- Due to the ordering problem (as described above), the calculation formulas for "Negative control (at 1.0 E-6 M only)" (N Mean and SD) need to be modified to use the values (from rows 102-104 (in v39) to rows 108 – 110 (in v39mod).
- The modified data files are labeled 'v39mod'

Table B-10. Japan CERL, FWA

Files Received	Files Converted (V39 for FWA, V25k for CERL)	Tast Run ID	Acceptability	Comments (All original files are in v37)
Subtask I				
hrER (FWA)_01_20090113.xls	hrER (FWA)_01_20090113, v39.xlsx	20090113		
hrER (FWA)_02_20090121.xls	hrER (FWA)_02_20090121, v39.xlsx	20090121		
hrER (FWA)_03_20090128.xls	hrER (FWA)_03_20090128, v39.xlsx	20090128		
Subtask II				
hrER (FWA)_01_20090422.xls	hrER (FWA)_01_20090422, v39.xlsx	20090422		
hrER (FWA)_02_20090427.xls	hrER (FWA)_02_20090427, v39.xlsx	20090427		
hrER (FWA)_03_20090430.xls	hrER (FWA)_03_20090430, v39.xlsx	20090430		
Subtask III				
hrER (FWA) 0th-091104-Task3.xls	hrER (FWA) 0th-091104-Task3, v39.xlsx	091104		
hrER (FWA)_01_091021-Task3.xls	hrER (FWA)_01_091021-Task3, v39.xlsx	091021		
hrER (FWA)_02_091026-Task3.xls	hrER (FWA)_02_091026-Task3, v39.xlsx	091026		
hrER (FWA)_03_091105-Task3.xls	hrER (FWA)_03_091105-Task3, v39.xlsx	091105		
hrER (FWA)_04_091109-Task3.xls	hrER (FWA)_04_091109-Task3, v39.xlsx	091109		
hrER (FWA)_05_091110-Task3.xls	hrER (FWA)_05_091110-Task3, v39.xlsx	091110		
hrER (FWA)_06_091111-Task3.xls	hrER (FWA)_06_091111-Task3, v39.xlsx	091111		
hrER (FWA)_07_091112-Task3.xls	hrER (FWA)_07_091112-Task3, v39.xlsx	091112		
hrER (FWA)_08_091116-Task3.xls	hrER (FWA)_08_091116-Task3, v39.xlsx	091116		
hrER (FWA)_09_091117-Task3.xls	hrER (FWA)_09_091117-Task3, v39.xlsx	091117		
hrER (FWA)_10_091118-Task3.xls	hrER (FWA)_10_091118-Task3, v39.xlsx	091118		
hrER (FWA)_11_091119-Task3.xls	hrER (FWA)_11_091119-Task3, v39.xlsx	091119		

Note:

- The received data files were all in v37. They were converted to v39.
- The lab did not indicate which runs are acceptable or unacceptable.

Table B-11. Dietrich, FWA

Files Received	Files Converted (V39 for FWA)	Tast Run ID	Acceptability	Comments
Subtask 1				
CompetitionBinding- Assay03_Addendum_011107AHH.xls	CompetitionBinding- Assay03_Addendum_011107AHH, v39mod.xlsx	Assay03		These file are in a completely different excel template. See below for remark.
CompetitionBinding- Assay03_210807AHH.xls		Assay03		They are the old version of the test run above (assay03).
CompetitionBinding- Assay02_Addendum_011107AHH.xls	CompetitionBinding- Assay02_Addendum_011107AHH, v39mod.xlsx	Assay02		These file are in a completely different excel template. See below for remark.
CompetitionBinding- Assay02_210807AHH.xls		Assay02		They are the old version of the test run above (assay02).
CompetitionBinding- Assay01_Addendum_011107AHH.xls	CompetitionBinding- Assay01_Addendum_011107AHH, v39mod.xlsx	Assay01		These file are in a completely different excel template. See below for remark.
CompetitionBinding- Assay01_200807AHH.xls		Assay01		They are the old version of the test run above (assay01).
Subtask 2				
CompetitionBinding- Assay04_091007AHH.xls		Assay04		Same format as those in Subtask I, not be converted yet. There is a same test run. (see next, if necessary, will be converted)
CompetitionBinding- Assay04_060508AHH_template.xls	CompetitionBinding- Assay04_060508AHH_template, v39mod.xlsx	Assay04		Unknown version of Excel format. Same test run as above)
13b_CompetitionBinding-Assay16(Task II part)_170608AHH_temp~.xls	13b_CompetitionBinding-Assay16(Task II part)_170608AHH_temp~, v39mod.xlsx	Assay16		Unknown version of Excel format. Same file in Task II
12b_CompetitionBinding-Assay15(Task II part)_130608AHH_temp~.xls	12b_CompetitionBinding-Assay15(Task II part)_130608AHH_temp~, v39mod.xlsx	Assay15		Unknown version of Excel format.

Files Received	Files Converted (V39 for FWA)	Tast Run ID	Acceptability	Comments
				Same file in Task II
03b_CompetitionBinding- Assay06_290408AHH_template.xls	03b_CompetitionBinding- Assay06_290408AHH_template, v39mod.xlsx	Assay06		Unknown version of Excel format. Same file in Task II
02b_CompetitionBinding- Assay05_170408AHH_template.xls	02b_CompetitionBinding- Assay05_170408AHH_template, v39mod.xlsx	Assay05		Unknown version of Excel format. Same file in Task II
Subtask III				
13b_CompetitionBinding-Assay16(Task III part)_170608AHH_tem~.xls	13b_CompetitionBinding-Assay16(Task III part)_170608AHH_tem~, v39mod.xlsx	Assay16 (III)		Unknown version of Excel format.
12b_CompetitionBinding-Assay15(Task III part)_130608AHH_tem~.xls	12b_CompetitionBinding-Assay15(Task III part)_130608AHH_tem~, v39mod.xlsx	Assay15 (III)		Unknown version of Excel format.
11b_CompetitionBinding- Assay14(Part2)_100608AHH_template.xls	11b_CompetitionBinding- Assay14(Part2)_100608AHH_template, v39mod.xlsx	Assay14_2		Unknown version of Excel format.
11b_CompetitionBinding- Assay14(Part1)_100608AHH_template.xls	11b_CompetitionBinding- Assay14(Part1)_100608AHH_template, v39mod.xlsx	Assay14_1		Unknown version of Excel format.
10b_CompetitionBinding- Assay13_090608AHH_template.xls	10b_CompetitionBinding- Assay13_090608AHH_template, v39mod.xlsx	Assay13		Unknown version of Excel format.
10b_CompetitionBinding- Assay13(Part2)_090608AHH_template.xls	10b_CompetitionBinding- Assay13(Part2)_090608AHH_template, v39mod.xlsx	Assay13_2		Unknown version of Excel format.
09b_CompetitionBinding- Assay12(Part2)_280508AHH_template.xls	09b_CompetitionBinding- Assay12(Part2)_280508AHH_template, v39mod.xlsx	Assay12_2		Unknown version of Excel format.
09b_CompetitionBinding- Assay12(Part1)_280508AHH_template.xls	09b_CompetitionBinding- Assay12(Part1)_280508AHH_template, v39mod.xlsx	Assay12_1		Unknown version of Excel format.
08b_CompetitionBinding- Assay11_270508AHH_template.xls	08b_CompetitionBinding- Assay11_270508AHH_template, v39mod.xlsx	Assay11		Unknown version of Excel format.
07b_CompetitionBinding- Assay10(Part2)_210508AHH_template.xls	07b_CompetitionBinding- Assay10(Part2)_210508AHH_template, v39mod.xlsx	Assay10_2		Unknown version of Excel format.
07b_CompetitionBinding- Assay10(Part1)_210508AHH_template.xls	07b_CompetitionBinding- Assay10(Part1)_210508AHH_template, v39mod.xlsx	Assay10_1		Unknown version of Excel format.
06b_CompetitionBinding-	06b_CompetitionBinding-	Assay09		Unknown version of Excel

Files Received	Files Converted (V39 for FWA)	Tast Run ID	Acceptability	Comments
Assay09_200508AHH_template.xls	Assay09_200508AHH_template, v39mod.xlsx			format.
05b_CompetitionBinding- Assay08_140508AHH_template.xls	05b_CompetitionBinding- Assay08_140508AHH_template, v39mod.xlsx	Assay08		Unknown version of Excel format.
04b_CompetitionBinding- Assay07_050508AHH_template.xls	04b_CompetitionBinding- Assay07_050508AHH_template, v39mod.xlsx	Assay07		Unknown version of Excel format.

Note

- Dietrich only ran the FWA protocol. Most data files for this laboratory are in an unknown version of data template. There are six measured hot DPM in V39 template, and they were supposed to be entered in V117-V122 and then the summary results were used for “Total hot E2 added to each well” (cells U21- W21). These six measured data were not available for this lab. Instead, this template used the three measured values (in cells S10-S12), and n, mean and SD for hot dpm (U21, V21 and X:W21) were computed using these data. Thus v39 template was modified to redirect the calculation of summary statistics for the “Total hot E2 added to each well” using the three measured values in cells S10-S12. This modified template is renamed as V39mod. Then data were copied and pasted from the original data template into the V39mod template.
- There are two files for each run in task I: one is labeled with “_Addendum_”, which is latest and is described as “recalculated”. We will keep the ones with “_Addendum_”. The data were entered into completely different excel templates. They were converted into V39mode using the following steps:
 - For task 1 data (see attached file “CompetitionBinding-Assay01_Addendum_011107AHH.xls” as an example). The hot concentrations should be “nominal” for the theoretical value, and “corrected for calibration factor” for the measured values.

[3H]-E2 stock conc.	[3H]-E2 final conc.	[3H]-E2 nominal	sample Type	Sample vol.	[3H]-E2 measured			[3H]-E2 corrected for calibration factor		
					Repl.1	Repl.2	Repl.3	Repl.1	Repl.2	Repl.3
(nM)	(nM)	(dpm)		(μl)	(dpm)	(dpm)	(dpm)	(dpm)	(dpm)	(dpm)
4	no value	39,072.00	Total	40	24,828.76	24,093.68	24,043.19	42,184.06	40,935.16	40,849.38

- Columns from K to M (“corrected for calibration factor”) should be input to column P of v39 “DPM as sampled”. These values needed to be transported before being entered into column P.
- The specific activity is 4.07 TBq/mmol (The radioactive ligand [2,4,6,7,16,17-³H(N)]-estradiol ([³H]-E2) was purchased from PerkinElmer Life and Analytical Science, Boston, MA, with a specific activity of 4.07E12 Bq/mmol and a specific concentration of 3.7E07 Bq/ml (= 3.7E04 Bq/μl) in ethanol.

Appendix C. PRISM Model Fit Results for the Standard Chemicals and Test Chemicals

Appendix C. PRISM Model Fit Results for the Standard Chemicals and Test Chemicals.

PRISM fit results for All Chemicals are listed as follows:

Table C-1. PRISM fits for Test Chemicals, CERI protocol

Table C-2. PRISM fits for Test Chemicals, FWA protocol

Table C-1. PRISM Fits for Test Chemicals, CERl protocol

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Ceetox	st1	20090207	A/A	E2	2.843	107	-8.784	-1.177	2.364	2.859	0.03572	0.1329	20	0.9844	5.779	24
Ceetox	st1	20090207	A/A	NE	1.201	96.28	-5.94	-0.8593	2.044	0.9131	0.01817	0.04992	20	0.9962	2.135	24
Ceetox	st1	20090207	A/A	DBP												21
Ceetox	st1	20090208	A/A	E2	2.848	101.4	-8.772	-1.163	2.584	3.029	0.04053	0.1492	20	0.9799	6.22	24
Ceetox	st1	20090208	A/A	NE	2.706	94.59	-5.855	-0.9692	2.431	1.039	0.02243	0.07316	20	0.9935	2.731	24
Ceetox	st1	20090208	A/A	DBP												21
Ceetox	st1	20090211	A/A	E2	3.411	109.5	-8.737	-1.239	2.519	2.941	0.03697	0.1478	20	0.9831	6.215	24
Ceetox	st1	20090211	A/A	NE	0.7085	96.99	-5.731	-0.9634	3.192	1.172	0.02628	0.08718	20	0.9915	3.157	24
Ceetox	st1	20090211	A/A	DBP												21
Ceetox	st2	20090215	A/A	E2	2.454	110.9	-8.728	-1.183	2.35	2.77	0.03409	0.1266	20	0.986	5.709	24
Ceetox	st2	20090215	A/A	NE	6.145	95.17	-5.897	-1.129	1.751	0.8505	0.01823	0.07036	20	0.9951	2.414	24
Ceetox	st2	20090215	A/A	DBP												21
Ceetox	st2	20090215	A/A	ButylPar	9.39	104.4	-4.825	-0.6747	7.743	3.036	0.1244	0.1647	20	0.9488	8.953	24
Ceetox	st2	20090215	A/A	Cort												24
Ceetox	st2	20090215	A/A	Equol	10.01	106.3	-6.664	-1.192	3.818	4.045	0.1147	0.3549	20	0.9494	10.97	24
Ceetox	st2	20090215	A/A	Hexestrol	2.754	92.42	-8.458	-1.171	0.8505	2.179	0.0357	0.09817	20	0.9931	3.15	24
Ceetox	st2	20090215	A/A	NPhenol	6.534	91.84	-5.466	-0.9745	1.395	0.8841	0.03312	0.06901	20	0.9949	2.813	24
Ceetox	st2	20090215	A/A	DDT	9.503	94.4	-5.347	-0.8825	2.317	1.383	0.05313	0.09939	20	0.9875	4.302	24
Ceetox	st2	20090215	A/A	DES	2.067	92.05	-8.817	-1.001	0.6037	2.054	0.02433	0.06662	20	0.9957	2.207	24
Ceetox	st2	20090215	A/A	Gen	12.25	94.02	-6.87	-1.144	2.994	3.455	0.09402	0.3582	20	0.9541	8.763	24
Ceetox	st2	20090215	A/A	EE2	6.859	123.3	-8.545	-0.8225	3.526	16.45	0.1253	0.267	20	0.9167	12.35	24
Ceetox	st2	20090218	U/U	E2	-1.478	127.4	-8.619	-0.6919	6.412	9.444	0.1012	0.1537	17	0.9526	11.7	21
Ceetox	st2	20090218	U/U	NE	-6366	111.8	-5.458	-0.2534	573251	22.03	0.1451	0.3259	17	0.9237	10.35	21
Ceetox	st2	20090218	U/U	DBP												18
Ceetox	st2	20090218	U/U	ButylPar	3.508	116.4	-4.721	-0.6885	8.44	3.169	0.113	0.1525	20	0.958	9.526	24
Ceetox	st2	20090218	U/U	Cort												24
Ceetox	st2	20090218	U/U	Equol	6.635	113.2	-6.608	-1.332	5.236	5.378	0.1496	0.4909	20	0.9249	15.19	24
Ceetox	st2	20090218	U/U	Hexestrol	-3.162	94.24	-8.017	-1.365	1.083	1.896	0.0283	0.2106	20	0.993	3.753	24
Ceetox	st2	20090218	U/U	NPhenol	2.711	98.32	-5.359	-1.064	1.795	1.144	0.03757	0.09033	20	0.993	3.73	24
Ceetox	st2	20090218	U/U	DDT	-0.1673	98.29	-5.379	-0.8637	3.801	2.213	0.07341	0.1356	20	0.9764	6.861	24
Ceetox	st2	20090218	U/U	DES	-3.915	90.93	-8.659	-1.18	0.9424	2.491	0.03673	0.09838	20	0.9918	3.514	24
Ceetox	st2	20090218	U/U	Gen	15.81	94.5	-6.521	-1.327	5.477	5.526	0.1986	0.5695	20	0.8622	15.8	24
Ceetox	st2	20090218	U/U	EE2	6.211	108.8			2.938	4.864			20	0.9551	10.49	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Ceetox	st2	20090221	A/A	E2	1.277	115.1	-8.691	-1.091	3.197	3.82	0.04526	0.147	20	0.9773	7.529	24
Ceetox	st2	20090221	A/A	NE	4.209	98.11	-6.19	-0.9511	1.783	1.096	0.01967	0.05709	20	0.9954	2.52	24
Ceetox	st2	20090221	A/A	DBP												21
Ceetox	st2	20090221	A/A	ButylPar	2.082	113.6	-4.601	-0.6109	12.13	3.664	0.1383	0.1627	20	0.9414	10.58	24
Ceetox	st2	20090221	A/A	Cort												24
Ceetox	st2	20090221	A/A	Equol	10.19	106.9	-6.502	-1.202	3.953	4.022	0.1178	0.3013	20	0.9481	11.24	24
Ceetox	st2	20090221	A/A	Hexestrol	2.243	102.7	-8.181	-0.9143	0.9365	2.441	0.03288	0.0786	20	0.9942	3.203	24
Ceetox	st2	20090221	A/A	NPhenol												24
Ceetox	st2	20090221	A/A	DDT	10.87	96.6	-5.127	-0.8761	2.925	1.582	0.06101	0.1222	20	0.9829	4.996	24
Ceetox	st2	20090221	A/A	DES	1.601	98.09	-8.408	-0.9457	0.6296	1.801	0.02452	0.05512	20	0.9968	2.229	24
Ceetox	st2	20090221	A/A	Gen	21.37	96.25	-6.3	-1.371	4.269	4.255	0.1565	0.4604	20	0.904	12.31	24
Ceetox	st2	20090221	A/A	EE2	9.648	91.1			2.209	4.598			20	0.9534	8.363	24
Ceetox	st3	20090228A	A/U	E2	2.012	119.9	-8.721	-1.008	3.439	4.43	0.04952	0.1401	20	0.975	7.996	24
Ceetox	st3	20090228A	A/U	NE		101.2				0.9478			20	0.9881	3.669	24
Ceetox	st3	20090228A	A/U	DBP												21
Ceetox	st3	20090228A	A/U	E2-TC												24
Ceetox	st3	20090228A	A/U	NE-TC	10.29	92.57	-7.934	-2.087	3.057	4.856	0.117	3.217	20	0.9287	10.74	24
Ceetox	st3	20090228A	A/U	DBP-TC	9.437	97.62	-4.901	-1.228	3.035	1.518	0.05139	0.2638	20	0.9823	5.31	24
Ceetox	st3	20090228A	A/U	Zear												24
Ceetox	st3	20090228A	A/U	Tamox	32.17	110.9	-7.425	-1.738	10.18	14.72	0.8127	2.636	20	0.5447	34.96	24
Ceetox	st3	20090228A	A/U	DHT												24
Ceetox	st3	20090228A	A/U	BPA	11.08	95.6	-7.445	-1.238	3.612	5.331	0.1356	0.3606	20	0.9193	12.01	24
Ceetox	st3	20090228A	A/U	Heptylphenol	31.02	95.8	-5.256	-1.163	2.486	1.689	0.1016	0.2122	20	0.9691	5.534	24
Ceetox	st3	20090228A	A/U	Kepone	9.453	111.5	-5.319	-0.952	5.258	3.37	0.1124	0.213	20	0.9519	10.6	24
Ceetox	st3	20090228A	A/U	BaA	-31.18	93.07	-3.765	-0.6319	42.51	1.279	0.07362	0.1621	20	0.9781	4.189	24
Ceetox	st3	20090228A	A/U	ELactone												24
Ceetox	st3	20090228A	A/U	Progesterone	7.334	90.97	-4.551	-1.028	3.302	1.184	0.05253	0.1268	20	0.9843	4.296	24
Ceetox	st3	20090228B	A/U	OTES												24
Ceetox	st3	20090228B	A/U	Atr												24
Ceetox	st3	20090305A	A/U	E2	0.06544	125.5	-8.57	-1.251	3.016	3.265	0.03792	0.1476	20	0.9836	7.276	24
Ceetox	st3	20090305A	A/U	NE		106.5				1.628			20	0.9713	6.3	24
Ceetox	st3	20090305A	A/U	DBP												21
Ceetox	st3	20090305A	A/U	E2-TC	7.704	118.9	-7.737	-1.936	2.781	4.077	0.1473	1.087	20	0.9685	9.611	24
Ceetox	st3	20090305A	A/U	NE-TC	-0.5072	101.7	-4.669	-1.176	2.185	0.8781	0.03136	0.09843	20	0.9946	3.23	24
Ceetox	st3	20090305A	A/U	DBP-TC												24
Ceetox	st3	20090305A	A/U	Zear	11.97	98.56	-6.872	-1.869	3.533	3.837	0.1355	1.811	20	0.9429	10.78	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Ceetox	st3	20090305A	A/U	Tamox	-1.793	116	-6.336	-1.055	4.065	4.014	0.09156	0.2051	20	0.9646	11.03	24
Ceetox	st3	20090305A	A/U	DHT	21.06	94.8	-4.853	-1.134	2.316	1.215	0.05425	0.2006	20	0.9845	4.142	24
Ceetox	st3	20090305A	A/U	BPA	-3.409	103.6	-5.22	-0.9673	3.169	1.818	0.0536	0.1279	20	0.9853	5.874	24
Ceetox	st3	20090305A	A/U	Heptylphenol	-3.04E+11	95.84	-3.624	-0.5144	2.46E+14	4.281	0.4009	0.4058	20	0.8622	13.67	24
Ceetox	st3	20090305A	A/U	Kepone	7.097	117.9	-4.04	-0.8627	13.99	3.572	0.1379	0.274	20	0.9119	12.62	24
Ceetox	st3	20090305A	A/U	BaA												24
Ceetox	st3	20090305A	A/U	ELactone	38.66	105.3	-3.3	-1.359	16.62	1.705	0.3234	1.23	20	0.9244	6.478	24
Ceetox	st3	20090305A	A/U	Progesterone												24
Ceetox	st3	20090305B	A/U	OTES												24
Ceetox	st3	20090305B	A/U	Atr												24
Ceetox	st3	20090310A	A/A	E2	1.866	111.2	-8.64	-1.308	2.543	2.733	0.03485	0.1516	20	0.9844	6.224	24
Ceetox	st3	20090310A	A/A	NE	2.213	94.71	-5.801	-1.018	1.819	0.7463	0.01646	0.0582	20	0.9963	2.058	24
Ceetox	st3	20090310A	A/A	DBP												21
Ceetox	st3	20090310A	A/A	E2-TC	9.282	110.1	-7.637	-1.535	2.532	3.729	0.09637	0.398	20	0.9689	8.643	24
Ceetox	st3	20090310A	A/A	NE-TC	2.191	92.44	-4.772	-1.047	1.954	0.7687	0.02968	0.08612	20	0.9949	2.746	24
Ceetox	st3	20090310A	A/A	DBP-TC	34.38	97.25	-3.18	-1.396	77.59	1.366	0.5567	2.782	20	0.9305	5.2	24
Ceetox	st3	20090310A	A/A	Zear	17.09	94.98	-6.738	-1.495	3.841	4.01	0.1535	0.7939	20	0.9224	11.36	24
Ceetox	st3	20090310A	A/A	Tamox	9.143	100.6	-6.881	-1.823	4.493	4.907	0.148	1.995	20	0.919	13.71	24
Ceetox	st3	20090310A	A/A	DHT	22.88	91.97	-4.878	-1.211	1.588	0.8662	0.03919	0.1754	20	0.9911	2.97	24
Ceetox	st3	20090310A	A/A	BPA	1.967	97.64	-5.22	-0.8791	3.036	1.648	0.05612	0.1144	20	0.9851	5.206	24
Ceetox	st3	20090310A	A/A	Heptylphenol	-76.26	93.35	-3.633	-0.7395	96.75	0.8937	0.06513	0.1966	20	0.9898	3.101	24
Ceetox	st3	20090310A	A/A	Kepone	8.178	107.5	-3.914	-0.8077	15.62	2.86	0.1307	0.2717	20	0.9195	10	24
Ceetox	st3	20090310A	A/A	BaA												24
Ceetox	st3	20090310A	A/A	ELactone	39.72	94.32	-3.564	-2.022	12.68	1.555	1.052	5.71	20	0.9153	6.001	24
Ceetox	st3	20090310A	A/A	Progesterone												24
Ceetox	st3	20090310B	A/A	OTES												24
Ceetox	st3	20090310B	A/A	Atr												24
Ceetox	st3	20090401A	A/U	E2	3.773	122.4	-8.605	-1.132	3.482	4.036	0.04864	0.1602	20	0.9754	8.251	24
Ceetox	st3	20090401A	A/U	NE	3.905	104.7	-4.755	-0.95	35.94	1.002	0.07544	0.2703	20	0.9853	2.934	24
Ceetox	st3	20090401A	A/U	DBP												21
Ceetox	st3	20090401A	A/U	E2-TC	12.27	115.6	-7.51	-2.04	3.068	4.367	0.1497	0.6429	20	0.9599	10.58	24
Ceetox	st3	20090401A	A/U	NE-TC	5.271	97.94	-4.809	-1.101	1.902	0.8206	0.02992	0.1044	20	0.9948	2.903	24
Ceetox	st3	20090401A	A/U	DBP-TC												24
Ceetox	st3	20090401A	A/U	Zear	18.94	98.59	-7.309	-1.525	5.197	7.47	0.2106	0.7341	20	0.8324	17.65	24
Ceetox	st3	20090401A	A/U	Tamox	10.15	113.7	-6.82	-1.823	5.087	5.556	0.2038	1.991	20	0.919	15.53	24
Ceetox	st3	20090401A	A/U	DHT	25.7	103.9	-4.749	-1.211	1.797	0.9804	0.04865	0.1754	20	0.9911	3.361	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Ceetox	st3	20090401A	A/U	BPA	2.027	110.3	-5.103	-0.8792	3.437	1.866	0.05735	0.1144	20	0.9851	5.894	24
Ceetox	st3	20090401A	A/U	Heptylphenol	-86.2	105.5	-3.535	-0.7402	109	1.012	0.06757	0.1967	20	0.9898	3.511	24
Ceetox	st3	20090401A	A/U	Kepone	12.07	113.6	-4.427	-1.139	7.425	2.897	0.1207	0.297	20	0.9417	10.65	24
Ceetox	st3	20090401A	A/U	BaA												24
Ceetox	st3	20090401A	A/U	ELactone	38.89	102.9	-3.522	-1.092	4.98	1.433	0.1283	0.2818	20	0.952	5.319	24
Ceetox	st3	20090401A	A/U	Progesterone												24
Ceetox	st3	20090401B	A/U	OTES												24
Ceetox	st3	20090401B	A/U	Atr												24
Ceetox	st3	20090415	U/A	E2	0.9289	105.6	-9.548	-1.596	1.429	2.839	0.02428	0.1616	20	0.9885	4.705	24
Ceetox	st3	20090415	U/A	NE	1.509	93.38	-5.728	-1.106	2.959	1.146	0.02627	0.1079	20	0.9898	3.389	24
Ceetox	st4	20090903A	A/A	E2	1.73	113.9	-8.349	-1.582	3.207	2.742	0.03842	0.234	20	0.9788	7.668	24
Ceetox	st4	20090903A	A/A	NE	3.846	96.4	-5.526	-1.357	2.721	0.9859	0.02498	0.144	20	0.9903	3.286	24
Ceetox	st4	20090903A	A/A	DBP												21
Ceetox	st4	20090903A	A/A	Cort-1												24
Ceetox	st4	20090903A	A/A	Dex-1												24
Ceetox	st4	20090903A	A/A	HPTE-1	0.5293	89.68	-6.41	-1.246	1.461	1.431	0.04503	0.1295	20	0.9915	4.1	24
Ceetox	st4	20090903A	A/A	Gen-1	5.186	110.5	-6.494	-1.207	2.955	2.992	0.07915	0.2022	20	0.9749	8.393	24
Ceetox	st4	20090903A	A/A	BPA-1	4.22	92.39	-5.573	-0.9699	1.326	0.8616	0.03101	0.06433	20	0.9956	2.717	24
Ceetox	st4	20090903A	A/A	OTES-1												24
Ceetox	st4	20090903A	A/A	Nethdrone-2	4.799	88.74	-5.614	-0.8843	4.985	3.157	0.1207	0.2237	20	0.9403	9.674	24
Ceetox	st4	20090903A	A/A	BPA-2	7.461	103.1	-5.349	-0.9589	4.141	2.61	0.08887	0.1788	20	0.9659	8.269	24
Ceetox	st4	20090903A	A/A	Dex-2												24
Ceetox	st4	20090903A	A/A	Nethdrone-3	6.185	90.46	-5.479	-0.8635	1.729	1.043	0.04027	0.07277	20	0.9929	3.208	24
Ceetox	st4	20090903A	A/A	Cort-2												24
Ceetox	st4	20090903A	A/A	Nethdrone	8.655	91.9	-5.524	-1.086	1.338	0.8902	0.0338	0.07913	20	0.9946	2.888	24
Ceetox	st4	20090903B	A/A	HPTE-2	2.971	105.4	-6.286	-1.199	2.785	2.727	0.0693	0.2004	20	0.9772	7.757	24
Ceetox	st4	20090903B	A/A	OTES-2												24
Ceetox	st4	20090903B	A/A	Nethdrone-4	5.95	88.31	-5.393	-0.9924	2.387	1.463	0.05706	0.127	20	0.9846	4.713	24
Ceetox	st4	20090903B	A/A	Gen-2	1.183	93.45	-7.265	-0.6021	5.413	8.279	0.1826	0.2004	20	0.9036	12.95	24
Ceetox	st4	20090905A	A/A	E2	2.841	116.1	-8.654	-1.299	2.69	2.985	0.03676	0.1551	20	0.9834	6.641	24
Ceetox	st4	20090905A	A/A	NE	3.176	101	-5.794	-1.054	1.618	0.717	0.01491	0.05252	20	0.997	1.995	24
Ceetox	st4	20090905A	A/A	DBP												21
Ceetox	st4	20090905A	A/A	Cort-1												24
Ceetox	st4	20090905A	A/A	Dex-1												24
Ceetox	st4	20090905A	A/A	Nethdrone-1	12.94	103.9	-5.766	-1.237	3.838	2.914	0.09931	0.3994	20	0.9594	9.161	24
Ceetox	st4	20090905A	A/A	HPTE-1	1.861	96.84	-6.633	-1.032	1.166	1.198	0.03274	0.07417	20	0.9952	3.201	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Ceetox	st4	20090905A	A/A	Gen-1	9.127	117.7	-6.719	-0.8827	4.378	5.399	0.1254	0.2381	20	0.9468	12.13	24
Ceetox	st4	20090905A	A/A	BPA-1	3.107	99.32	-5.683	-0.9457	1.398	0.9558	0.03074	0.06599	20	0.9958	2.923	24
Ceetox	st4	20090905A	A/A	OTES-1												24
Ceetox	st4	20090905A	A/A	Nethdrone-2	5.724	97.08	-5.75	-1.101	2.079	1.478	0.04815	0.1423	20	0.9888	4.667	24
Ceetox	st4	20090905A	A/A	BPA-2	6.546	117.8	-5.526	-0.8837	4.771	3.285	0.1007	0.179	20	0.9656	9.742	24
Ceetox	st4	20090905A	A/A	Dex-2												24
Ceetox	st4	20090905A	A/A	Nethdrone-3	6.206	102.9	-5.646	-0.9202	2.008	1.385	0.04525	0.09215	20	0.9915	4.175	24
Ceetox	st4	20090905A	A/A	Cort-2												24
Ceetox	st4	20090905B	A/A	HPTE-2	3.984	118.8	-6.46	-1.051	3.003	3.083	0.07543	0.162	20	0.9786	8.286	24
Ceetox	st4	20090905B	A/A	OTES-2												24
Ceetox	st4	20090905B	A/A	Nethdrone-4	7.336	101	-5.569	-1.03	2.175	1.473	0.05038	0.1145	20	0.989	4.668	24
Ceetox	st4	20090905B	A/A	Gen-2	3.632	93.75	-6.602	-1.279	1.812	1.826	0.05395	0.1531	20	0.9869	5.194	24
Ceetox	st4	20090907A	A/A	E2	5.987	176.8	-8.413	-1.374	5.802	6.272	0.06753	0.2378	20	0.9667	14.49	24
Ceetox	st4	20090907A	A/A	NE	12.5	135.5	-5.545	-1.309	8.782	4.099	0.0866	0.3127	20	0.9334	12.83	24
Ceetox	st4	20090907A	A/A	DBP												21
Ceetox	st4	20090907A	A/A	Cort-1												24
Ceetox	st4	20090907A	A/A	Dex-1												24
Ceetox	st4	20090907A	A/A	Nethdrone-1	19.63	148.5	-5.246	-0.9902	3.07	2.159	0.07674	0.1219	20	0.9883	6.63	24
Ceetox	st4	20090907A	A/A	HPTE-1	5.399	135.3	-6.309	-1.081	4.746	4.806	0.1112	0.2267	20	0.9592	13.13	24
Ceetox	st4	20090907A	A/A	Gen-1	20.8	169.6	-6.583	-1.62	5.26	5.994	0.244	0.98	20	0.9552	16.16	24
Ceetox	st4	20090907A	A/A	BPA-1	9.591	145.1	-5.4	-0.9914	2.021	1.43	0.04233	0.0774	20	0.9954	4.381	24
Ceetox	st4	20090907A	A/A	OTES-1												24
Ceetox	st4	20090907A	A/A	Nethdrone-2	0.3726	145.5	-5.397	-0.6438	5.116	3.456	0.08703	0.08909	20	0.9819	8.611	24
Ceetox	st4	20090907A	A/A	BPA-2	14.35	174.1	-5.288	-0.9682	6.412	4.695	0.1375	0.2115	20	0.9667	14.04	24
Ceetox	st4	20090907A	A/A	Dex-2												24
Ceetox	st4	20090907A	A/A	Nethdrone-3	13.88	152.7	-5.343	-0.8896	2.54	1.851	0.05664	0.08251	20	0.9932	5.372	24
Ceetox	st4	20090907A	A/A	Cort-2												24
Ceetox	st4	20090907B	A/A	HPTE-2	8.515	174.3	-6.286	-1.053	4.367	4.631	0.1029	0.1798	20	0.9777	12.19	24
Ceetox	st4	20090907B	A/A	OTES-2												24
Ceetox	st4	20090907B	A/A	Nethdrone-4	11.03	148	-5.341	-0.9814	2.549	1.781	0.05367	0.09285	20	0.9929	5.47	24
Ceetox	st4	20090907B	A/A	Gen-2	7.296	144	-6.493	-0.8889	3.22	3.761	0.08232	0.1351	20	0.9819	8.771	24
Ceetox	st4	20090930A	A/A	E2	9.64	106.4	-8.391	-1.76	4.07	3.513	0.05499	0.4148	20	0.9543	10	24
Ceetox	st4	20090930A	A/A	NE	14.38	90.61	-5.539	-1.235	5.406	1.983	0.06296	0.2877	20	0.9497	6.312	24
Ceetox	st4	20090930A	A/A	DBP												21
Ceetox	st4	20090930A	A/A	Cort-1												24
Ceetox	st4	20090930A	A/A	Dex-1												24

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Ceetox	st4	20090930A	A/A	Nethdrone-1	13.75	91.49	-5.246	-1.196	3.219	2.085	0.08034	0.2509	20	0.9648	6.95	24
Ceetox	st4	20090930A	A/A	HPTE-1	7.98	89.3	-6.412	-1.044	2.8	2.732	0.09034	0.2051	20	0.9653	7.519	24
Ceetox	st4	20090930A	A/A	Gen-1	19.23	107.4	-6.47	-1.448	4.321	4.364	0.1656	0.4919	20	0.926	12.62	24
Ceetox	st4	20090930A	A/A	BPA-1	9.331	87.7	-5.483	-1.021	2.174	1.399	0.05682	0.1246	20	0.985	4.501	24
Ceetox	st4	20090930A	A/A	OTES-1												24
Ceetox	st4	20090930A	A/A	Nethdrone-2	8.697	89.86	-5.502	-0.927	1.524	0.961	0.03799	0.07441	20	0.9935	3.007	24
Ceetox	st4	20090930A	A/A	BPA-2	14.96	103.2	-5.259	-0.9938	4.737	3.014	0.1141	0.2324	20	0.9472	9.643	24
Ceetox	st4	20090930A	A/A	Dex-2												24
Ceetox	st4	20090930A	A/A	Nethdrone-3	11.71	89.4	-5.348	-1.061	2.387	1.516	0.06119	0.1476	20	0.9815	4.942	24
Ceetox	st4	20090930A	A/A	Cort-2												24
Ceetox	st4	20090930B	A/A	HPTE-2	4.469	104.1	-6.274	-1.259	2.646	2.595	0.06732	0.213	20	0.978	7.445	24
Ceetox	st4	20090930B	A/A	OTES-2												24
Ceetox	st4	20090930B	A/A	Nethdrone-4	5.98	89.13	-5.348	-0.7914	2.694	1.435	0.05775	0.09711	20	0.9858	4.356	24
Ceetox	st4	20090930B	A/A	Gen-2	20.62	85.97			3.931	3.985			20	0.89	11.85	24
Freyberger	st2	A	U/A	E2												24
Freyberger	st2	A	U/A	NE	-0.328	98.63	-6.316	-0.8769	1.983	1.309	0.02109	0.05508	20	0.995	2.732	24
Freyberger	st2	A	U/A	DBP												21
Freyberger	st2	A	U/A	ButylPar	-14.6	94.77	-4.804	-0.5447	6.293	1.3	0.0488	0.05845	20	0.9908	3.629	24
Freyberger	st2	A	U/A	Cort												24
Freyberger	st2	A	U/A	Equol	1.305	94.71	-7.216	-0.6083	1.537	2.305	0.05067	0.05662	20	0.9917	3.682	24
Freyberger	st2	A	U/A	Hexestrol	-0.3342	91.37	-7.964	-1.036	0.5438	0.9827	0.01815	0.05474	20	0.9981	1.799	24
Freyberger	st2	B	A/A	E2	-0.4851	101	-9.003	-1.094	0.5382	0.7404	0.008736	0.02938	20	0.9991	1.332	24
Freyberger	st2	B	A/A	NE	-1.259	97.7	-6.32	-0.9546	1.311	0.8614	0.01415	0.04117	20	0.9976	1.931	24
Freyberger	st2	B	A/A	DBP												21
Freyberger	st2	B	A/A	ButylPar	-3.995	84.02	-4.956	-0.6588	3.208	0.8915	0.04032	0.058	20	0.9932	2.74	24
Freyberger	st2	B	A/A	Cort												24
Freyberger	st2	B	A/A	Equol	1.762	80.38	-6.601	-1.058	1.229	1.208	0.0446	0.09383	20	0.9926	3.328	24
Freyberger	st2	B	A/A	Hexestrol	-2.179	81.39	-8.122	-0.991	0.2938	0.5511	0.01216	0.03051	20	0.9993	0.9664	24
Freyberger	st2	C	A/A	E2	-0.5349	99.55	-9.024	-1.102	0.5319	0.7357	0.008774	0.02981	20	0.999	1.323	24
Freyberger	st2	C	A/A	NE	-1.047	96.84	-6.392	-0.9619	2.179	1.518	0.02458	0.07178	20	0.993	3.336	24
Freyberger	st2	C	A/A	DBP												21
Freyberger	st2	C	A/A	ButylPar	-16.13	93.57	-4.772	-0.5452	4.595	0.8764	0.03341	0.04076	20	0.9956	2.471	24
Freyberger	st2	C	A/A	Cort												24
Freyberger	st2	C	A/A	Equol	1.156	92.68	-6.527	-1.009	1.275	1.266	0.03723	0.07834	20	0.9941	3.424	24
Freyberger	st2	C	A/A	Hexestrol	-1.062	88.63	-8.012	-1.068	0.7828	1.414	0.02669	0.08658	20	0.9958	2.608	24
Freyberger	st2	D	A/A	E2	-0.2586	99.27	-9.024	-1.069	0.5305	0.7392	0.00885	0.0287	20	0.9991	1.305	24

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Freyberger	st2	D	A/A	NE	-0.8012	95.48	-6.489	-1.022	1.371	1.035	0.01657	0.05225	20	0.9967	2.288	24
Freyberger	st2	D	A/A	DBP												21
Freyberger	st2	D	A/A	ButylPar	-8.619	99.26	-4.734	-0.641	3.795	0.9967	0.0367	0.052	20	0.9943	3.034	24
Freyberger	st2	D	A/A	Cort												24
Freyberger	st2	D	A/A	Equol	2.541	99.87	-6.549	-0.9451	1.189	1.213	0.03286	0.06479	20	0.9955	3.16	24
Freyberger	st2	D	A/A	Hexestrol	-0.4832	96.56	-7.895	-1.113	0.6499	1.12	0.01956	0.06897	20	0.9976	2.169	24
Freyberger	st2	E	A/A	E2	-1.389	102.7	-9.029	-1.131	0.6566	0.9177	0.01041	0.03692	20	0.9986	1.659	24
Freyberger	st2	E	A/A	NE	-1.892	100	-6.546	-1.009	1.454	1.188	0.01724	0.0534	20	0.9965	2.509	24
Freyberger	st2	E	A/A	DBP												21
Freyberger	st2	E	A/A	NPhenol	-1.744	94.69	-5.681	-0.7679	0.8541	0.5304	0.01771	0.0275	20	0.9988	1.525	24
Freyberger	st2	E	A/A	DDT	-1.603	93.62	-5.552	-0.9628	1.951	1.242	0.04191	0.08535	20	0.9921	3.93	24
Freyberger	st2	E	A/A	DES	-2.096	89.8	-8.499	-1.233	0.4001	1.001	0.01711	0.04819	20	0.9985	1.492	24
Freyberger	st2	E	A/A	Gen	5.076	90.16			2.553	1.877			20	0.9786	6.379	24
Freyberger	st2	E	A/A	EE2	-0.6902	88.56	-8.906	-1.25	0.7032	2.035	0.02465	0.1122	20	0.9941	2.649	24
Freyberger	st2	F	A/A	E2	-0.6075	102.8	-9.102	-1.162	0.6732	0.9923	0.01092	0.04058	20	0.9984	1.755	24
Freyberger	st2	F	A/A	NE	-1.106	101	-6.575	-1.023	1.096	0.9325	0.01326	0.04183	20	0.9979	1.949	24
Freyberger	st2	F	A/A	DBP												21
Freyberger	st2	F	A/A	NPhenol	0.4542	95.81	-5.757	-0.819	1.438	0.9632	0.0314	0.05467	20	0.9959	2.788	24
Freyberger	st2	F	A/A	DDT	1.413	99.51	-5.695	-0.8374	1.587	1.063	0.03387	0.0605	20	0.9952	3.11	24
Freyberger	st2	F	A/A	DES	-0.7997	104.2	-8.488	-0.8161	1.575	5.47	0.05864	0.1116	20	0.9822	5.4	24
Freyberger	st2	F	A/A	Gen	9.36	98.81			3.153	2.405			20	0.9696	8.034	24
Freyberger	st2	F	A/A	EE2	2.527	98.5	-8.663	-1.233	1.008	2.691	0.03697	0.1167	20	0.9904	3.785	24
Freyberger	st2	G	A/A	E2	0.6031	88.15	-8.948	-1.59	1.328	1.517	0.02241	0.1375	20	0.9925	3.549	24
Freyberger	st2	G	A/A	NE	-1.942	103.1	-6.56	-1.017	0.8883	0.7529	0.01042	0.0326	20	0.9987	1.57	24
Freyberger	st2	G	A/A	DBP												21
Freyberger	st2	G	A/A	NPhenol	2.626	93.68	-5.605	-0.9598	1.324	0.8654	0.03004	0.06205	20	0.9959	2.712	24
Freyberger	st2	G	A/A	DDT	3.713	98.69	-5.587	-0.9308	0.9631	0.634	0.02118	0.04236	20	0.998	1.958	24
Freyberger	st2	G	A/A	DES	0.115	101.8	-8.433	-0.9678	0.7599	2.19	0.02797	0.06385	20	0.9956	2.717	24
Freyberger	st2	G	A/A	Gen	7.864	100.2			2.398	1.745			20	0.9841	5.959	24
Freyberger	st2	G	A/A	EE2	3.252	97.9	-8.676	-1.29	1.038	2.713	0.03844	0.1308	20	0.9895	3.919	24
Freyberger	st3	CODE A1	A/U	E2	0.2734	95.85	-9.091	-1.12	1.132	1.61	0.01982	0.06882	20	0.9951	2.865	24
Freyberger	st3	CODE A1	A/U	NE	1.745	69.01	-6.588	-1.734	11.05	7.757	0.2222	1.314	20	0.6448	23.09	24
Freyberger	st3	CODE A1	A/U	DBP												21
Freyberger	st3	CODE A1	A/U	E2-TC	8.597	87.07			4.662	13.99			20	0.7661	16.54	24
Freyberger	st3	CODE A1	A/U	Tamox	-2.158	94.26	-7.626	-1.088	0.7965	0.805	0.02206	0.05141	20	0.9978	2.206	24
Freyberger	st3	CODE A1	A/U	BPA	-2.016	94.38	-5.731	-0.8945	1.205	0.7998	0.02592	0.05044	20	0.9971	2.422	24

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Freyberger	st3	CODE A1	A/U	Kepone	4.182	95.6	-5.108	-1.187	1.091	0.6351	0.01967	0.08484	20	0.9974	2.146	24
Freyberger	st3	CODE A1	A/U	ELactone	3.203	87.89	-4.339	-0.7945	2.298	0.5022	0.02374	0.0488	20	0.9967	1.737	24
Freyberger	st3	CODE A2	A/A	E2	-0.5603	100.8	-9.09	-1.036	0.9848	1.462	0.01653	0.05129	20	0.9967	2.438	24
Freyberger	st3	CODE A2	A/A	NE	-2.172	99.82	-6.634	-1.006	0.7855	0.6935	0.009684	0.02979	20	0.9989	1.407	24
Freyberger	st3	CODE A2	A/A	DBP												21
Freyberger	st3	CODE A2	A/A	E2-TC	7.28	94.01	-8.986	-1.754	4.107	14.11	0.1051	2.914	20	0.8096	15.79	24
Freyberger	st3	CODE A2	A/A	Tamox	-2.076	99.25	-7.455	-1.057	1.021	1.008	0.02668	0.06008	20	0.9969	2.772	24
Freyberger	st3	CODE A2	A/A	BPA	-1.699	99.09	-5.715	-0.8613	2.578	1.723	0.05322	0.09922	20	0.988	5.114	24
Freyberger	st3	CODE A2	A/A	Kepone	3.815	101.7	-5.075	-1.055	1.333	0.746	0.02289	0.07238	20	0.9969	2.475	24
Freyberger	st3	CODE A2	A/A	ELactone	9.577	89.61	-4.366	-0.6825	3.815	0.812	0.04318	0.06794	20	0.9915	2.626	24
Freyberger	st3	CODE A3	A/A	E2	-1.267	99.95	-9.093	-1.106	0.8838	1.283	0.01468	0.05028	20	0.9973	2.241	24
Freyberger	st3	CODE A3	A/A	NE	-2.069	99.85	-6.674	-0.9847	1.517	1.389	0.01902	0.05669	20	0.9959	2.727	24
Freyberger	st3	CODE A3	A/A	DBP												21
Freyberger	st3	CODE A3	A/A	E2-TC	8.799	92.48			4.726	18.81			20	0.748	18.3	24
Freyberger	st3	CODE A3	A/A	Tamox	-1.749	59.57			5.138	5.047			20	0.8111	15.23	24
Freyberger	st3	CODE A3	A/A	BPA	-1.929	92.09	-5.83	-0.8611	1.981	1.345	0.04423	0.08329	20	0.9917	3.967	24
Freyberger	st3	CODE A3	A/A	Kepone	-2.946	95.45	-5.283	-0.6433	3.842	1.67	0.05956	0.07716	20	0.9867	4.69	24
Freyberger	st3	CODE A3	A/A	ELactone	17.32	91.6	-4.322	-0.7945	4.642	1.277	0.07193	0.1259	20	0.9765	4.349	24
Freyberger	st3	CODE B1	A/A	E2	-0.3734	98.76	-9.101	-1.142	0.742	1.074	0.01253	0.04512	20	0.998	1.907	24
Freyberger	st3	CODE B1	A/A	NE	-2.938	91.46	-6.654	-0.9126	1.751	1.44	0.0226	0.05968	20	0.9946	2.812	24
Freyberger	st3	CODE B1	A/A	DBP												21
Freyberger	st3	CODE B1	A/A	DBP-TC	-21.95	90.8	-3.556	-0.7528	42.33	0.7714	0.06681	0.1887	20	0.9879	2.686	24
Freyberger	st3	CODE B1	A/A	Zear	11.58	89.43	-7.061	-1.551	3.956	5.097	0.114	1.257	20	0.9027	12.74	24
Freyberger	st3	CODE B1	A/A	DHT	8.817	92.18	-5.417	-0.8875	1.429	0.8681	0.03377	0.06321	20	0.9949	2.695	24
Freyberger	st3	CODE B1	A/A	Heptylphenol	-232.7	89.04	-4.194	-0.3811	253.8	1.313	0.04985	0.06951	20	0.9911	3.103	24
Freyberger	st3	CODE B1	A/A	OTES												24
Freyberger	st3	CODE B2	A/A	E2	-0.2106	99.68	-9.052	-1.118	0.8668	1.223	0.0144	0.05013	20	0.9974	2.186	24
Freyberger	st3	CODE B2	A/A	NE	-1.332	97.39	-6.623	-0.978	1.19	1.025	0.01493	0.04408	20	0.9975	2.063	24
Freyberger	st3	CODE B2	A/A	DBP												21
Freyberger	st3	CODE B2	A/A	DBP-TC	1.521	91.98	-3.627	-1.005	19.42	0.8053	0.07908	0.3	20	0.987	2.967	24
Freyberger	st3	CODE B2	A/A	Zear	10.57	90.04	-7.105	-1.456	4.098	5.453	0.1297	0.9991	20	0.8978	13.3	24
Freyberger	st3	CODE B2	A/A	DHT	7.065	93.46	-5.437	-0.9224	1.809	1.122	0.04182	0.08183	20	0.9921	3.519	24
Freyberger	st3	CODE B2	A/A	Heptylphenol	-19.44	88.47	-4.274	-0.7853	33.4	4.576	0.1816	0.4515	20	0.8254	15.94	24
Freyberger	st3	CODE B2	A/A	OTES												24
Freyberger	st3	CODE B3	A/A	E2	0.1685	99.2	-9.095	-1.158	0.8364	1.209	0.01409	0.05193	20	0.9974	2.161	24
Freyberger	st3	CODE B3	A/A	NE	-1.52	101.6	-6.636	-0.8916	1.054	0.9491	0.01273	0.03318	20	0.9982	1.741	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Freyberger	st3	CODE B3	A/A	DBP												21
Freyberger	st3	CODE B3	A/A	DBP-TC	19.5	90.05	-3.881	-2.65	5.495	0.8425	0.3953	8.971	20	0.9845	3.26	24
Freyberger	st3	CODE B3	A/A	Zear	12.9	89.99	-7.11	-1.545	4.08	5.527	0.1357	1.186	20	0.8905	13.45	24
Freyberger	st3	CODE B3	A/A	DHT	8.061	88.34	-5.356	-1.171	2.033	1.319	0.0515	0.1445	20	0.9866	4.378	24
Freyberger	st3	CODE B3	A/A	Heptylphenol	-51.5	81.77	-4.297	-0.5774	23.03	0.9079	0.04137	0.08096	20	0.9918	2.846	24
Freyberger	st3	CODE B3	A/A	OTES												24
Freyberger	st3	CODE C1	A/A	E2	-0.9596	103	-9.007	-1.201	1.064	1.448	0.01658	0.06493	20	0.9964	2.732	24
Freyberger	st3	CODE C1	A/A	NE	-1.53	107.4	-6.566	-0.9828	1.416	1.25	0.01638	0.04847	20	0.997	2.494	24
Freyberger	st3	CODE C1	A/A	DBP												21
Freyberger	st3	CODE C1	A/A	NE-TC	0.8914	95.87	-6.122	-1.15	1.428	1.26	0.0334	0.1281	20	0.9938	3.669	24
Freyberger	st3	CODE C1	A/A	BaA												24
Freyberger	st3	CODE C1	A/A	Progesterone												24
Freyberger	st3	CODE C1	A/A	Atr												24
Freyberger	st3	CODE C2	A/A	E2	-0.738	103.6	-9.023	-1.144	0.6462	0.904	0.01021	0.03694	20	0.9987	1.642	24
Freyberger	st3	CODE C2	A/A	NE	-2.878	101	-6.612	-0.9943	1.513	1.313	0.01813	0.05486	20	0.9962	2.665	24
Freyberger	st3	CODE C2	A/A	DBP												21
Freyberger	st3	CODE C2	A/A	NE-TC	0.659	94.99	-6.153	-1.034	1.135	0.9946	0.02785	0.08025	20	0.9962	2.827	24
Freyberger	st3	CODE C2	A/A	BaA												24
Freyberger	st3	CODE C2	A/A	Progesterone												24
Freyberger	st3	CODE C2	A/A	Atr												24
Freyberger	st3	CODE C3	A/A	E2	-0.7737	96.78	-9.04	-1.139	0.7599	1.037	0.01281	0.04563	20	0.998	1.91	24
Freyberger	st3	CODE C3	A/A	NE	-2.695	101.9	-6.668	-0.964	1.319	1.215	0.01612	0.04665	20	0.9971	2.342	24
Freyberger	st3	CODE C3	A/A	DBP												21
Freyberger	st3	CODE C3	A/A	NE-TC	3.524	101.7	-6.073	-1.025	1.037	0.9101	0.02412	0.06911	20	0.9971	2.58	24
Freyberger	st3	CODE C3	A/A	BaA												24
Freyberger	st3	CODE C3	A/A	Progesterone												24
Freyberger	st3	CODE C3	A/A	Atr												24
JapanCERI	st1	91224	A/A	E2	-0.933	92.45	-8.957	-1.367	1.322	1.591	0.02182	0.104	20	0.9935	3.418	24
JapanCERI	st1	91224	A/A	NE	-7.019	97.85	-6.283	-0.721	3.122	1.77	0.02669	0.05781	20	0.9927	3.205	24
JapanCERI	st1	91224	A/A	DBP												21
JapanCERI	st1	100107	A/A	E2	-0.8592	99.42	-8.986	-1.424	1.149	1.459	0.01757	0.09269	20	0.9955	3.072	24
JapanCERI	st1	100107	A/A	NE	-5.558	97.09	-6.158	-0.8831	3.791	2.03	0.03453	0.09485	20	0.986	4.619	24
JapanCERI	st1	100107	A/A	DBP												21
JapanCERI	st1	100108	A/A	E2	-3.529	101.8	-8.959	-1.277	2.028	2.576	0.03017	0.1304	20	0.9879	5.207	24
JapanCERI	st1	100108	A/A	NE	-4.651	100.4	-6.102	-0.9335	3.879	2.078	0.03502	0.1029	20	0.985	4.961	24
JapanCERI	st1	100108	A/A	DBP												21

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
JapanCERI	st2	100119	A/A	E2	4.423	108	-8.67	-1.423	3.925	4.198	0.0559	0.2779	20	0.9587	9.886	24
JapanCERI	st2	100119	A/A	NE	10.77	118.4	-5.995	-0.9635	5.338	3.382	0.05999	0.1538	20	0.9684	7.757	24
JapanCERI	st2	100119	A/A	DBP												21
JapanCERI	st2	100119	A/A	ButylPar	-7.17E+13	105	-3.521	-0.2002	3.97E+12	3.041	0.1792	0.01967	20	0.5742	20.69	24
JapanCERI	st2	100119	A/A	Cort												24
JapanCERI	st2	100119	A/A	Equol	7.036	105.1	-5.421	-1.076	1.56	1.034	0.03419	0.07716	20	0.9948	3.35	24
JapanCERI	st2	100119	A/A	Hexestrol	4.398	109.7	-6.869	-1.392	1.635	1.876	0.03944	0.2606	20	0.9911	4.95	24
JapanCERI	st2	100119	A/A	NPhenol	6.809	106	-4.473	-0.8906	3.232	1.088	0.04404	0.08739	20	0.991	3.785	24
JapanCERI	st2	100119	A/A	DDT	11.19	106.5	-4.349	-0.9855	4.04	1.395	0.05883	0.1262	20	0.9831	5.025	24
JapanCERI	st2	100119	A/A	DES	3.099	117.4	-7.658	-0.8413	2.267	4.471	0.06879	0.1288	20	0.9799	7.124	24
JapanCERI	st2	100119	A/A	Gen	1.378	107.7	-4.91	-1.488	5.136	2.662	0.07043	0.6677	20	0.9629	9.525	24
JapanCERI	st2	100119	A/A	EE2	3.607	116.7	-7.801	-0.9665	1.528	3.073	0.04512	0.1178	20	0.9897	5.05	24
JapanCERI	st2	100126	A/A	E2	4.007	109.7	-8.804	-1.377	1.82	2.165	0.02659	0.1271	20	0.9905	4.699	24
JapanCERI	st2	100126	A/A	NE	9.629	104	-6.198	-1.285	4.537	3.026	0.05471	0.2343	20	0.962	8.116	24
JapanCERI	st2	100126	A/A	DBP												21
JapanCERI	st2	100126	A/A	ButylPar	29.89	100.8	-3.63	-1.143	5.903	1.258	0.09783	0.3323	20	0.966	4.702	24
JapanCERI	st2	100126	A/A	Cort												24
JapanCERI	st2	100126	A/A	Equol	1.102	100.7	-5.313	-1.074	2.1	1.325	0.04138	0.1046	20	0.9912	4.338	24
JapanCERI	st2	100126	A/A	Hexestrol	2.982	101.2	-6.707	-1.173	2.82	2.944	0.0763	0.2324	20	0.9732	8.038	24
JapanCERI	st2	100126	A/A	NPhenol	6.03	102.1	-4.542	-1.03	4.974	1.844	0.07357	0.1779	20	0.9727	6.652	24
JapanCERI	st2	100126	A/A	DDT	6.689	104.4	-4.344	-0.946	3.01	0.9725	0.03885	0.0834	20	0.9918	3.484	24
JapanCERI	st2	100126	A/A	DES	2.597	103.9	-7.302	-1.121	0.7779	1.136	0.0234	0.06256	20	0.9973	2.515	24
JapanCERI	st2	100126	A/A	Gen	0.9256	112.7	-4.888	-1.097	5.2	2.594	0.07378	0.2691	20	0.9691	8.861	24
JapanCERI	st2	100126	A/A	EE2	1.976	107.2	-7.471	-1.136	1.153	1.738	0.03489	0.08485	20	0.9942	3.786	24
JapanCERI	st2	100129	A/A	E2	1.344	101	-8.835	-1.136	2.803	3.419	0.04417	0.1569	20	0.9764	6.768	24
JapanCERI	st2	100129	A/A	NE	9.638	100.5	-6.287	-1.194	1.636	1.158	0.02087	0.08114	20	0.9945	2.906	24
JapanCERI	st2	100129	A/A	DBP												21
JapanCERI	st2	100129	A/A	ButylPar	21.35	90.04	-3.758	-1.227	6.891	1.028	0.0822	0.4312	20	0.9738	3.871	24
JapanCERI	st2	100129	A/A	Cort												24
JapanCERI	st2	100129	A/A	Equol	-0.8544	91.36	-5.471	-1.141	1.804	1.181	0.04124	0.1028	20	0.992	3.895	24
JapanCERI	st2	100129	A/A	Hexestrol	1.504	98.46	-6.849	-1.241	1.589	1.719	0.04032	0.1748	20	0.9908	4.628	24
JapanCERI	st2	100129	A/A	NPhenol	5.127	92.6	-4.616	-0.96	2.416	0.8514	0.03619	0.08337	20	0.9928	3.026	24
JapanCERI	st2	100129	A/A	DDT	7.441	91.97	-4.294	-0.9085	5.489	1.514	0.06796	0.1567	20	0.9713	5.415	24
JapanCERI	st2	100129	A/A	DES	0.4949	95.66	-7.331	-1.261	1.711	2.452	0.05643	0.1833	20	0.9854	5.634	24
JapanCERI	st2	100129	A/A	Gen	3.553	101.2			2.442	1.109			20	0.9911	4.273	24
JapanCERI	st2	100129	A/A	EE2	4.62	92.29	-7.757	-1.801	2.121	3.058	0.08521	0.5578	20	0.9716	7.292	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
JapanCERI	st3	100203	A/A	E2	-0.4119	137.8	-8.695	-1.22	1.798	2.214	0.02244	0.08099	20	0.9947	4.488	24
JapanCERI	st3	100203	A/A	NE	3.755	139.6	-6.098	-1.019	3.27	2.335	0.03202	0.08563	20	0.9912	5.29	24
JapanCERI	st3	100203	A/A	DBP												21
JapanCERI	st3	100203	A/A	DBP-TC												24
JapanCERI	st3	100203	A/A	Zear	7.026	133.2	-5.81	-1.235	1.682	1.44	0.0341	0.1384	20	0.9952	4.303	24
JapanCERI	st3	100203	A/A	Tamox	3.318	141.3	-5.688	-0.8379	1.405	1.131	0.02769	0.04411	20	0.9977	3.076	24
JapanCERI	st3	100203	A/A	DHT	19.87	136.6	-3.976	-0.9836	4.88	1.624	0.06559	0.1201	20	0.984	5.873	24
JapanCERI	st3	100203	A/A	BPA	17.35	128	-4.483	-1.419	2.794	1.201	0.06158	0.1946	20	0.9916	4.505	24
JapanCERI	st3	100203	A/A	Kepone	17.56	134.4	-3.89	-1.801	3.707	1.461	0.0437	0.5442	20	0.9853	5.621	24
JapanCERI	st3	100203	A/A	BaA												24
JapanCERI	st3	100203	A/A	Progesterone												24
JapanCERI	st3	100208	A/A	E2	-2.682	126.6	-8.7	-1.212	1.814	2.146	0.02265	0.08501	20	0.994	4.455	24
JapanCERI	st3	100208	A/A	NE	-2.033	134.2	-6.174	-0.9541	3.03	2.188	0.0277	0.07199	20	0.9928	4.701	24
JapanCERI	st3	100208	A/A	DBP												21
JapanCERI	st3	100208	A/A	DBP-TC												24
JapanCERI	st3	100208	A/A	Zear	4.372	123.7	-5.933	-1.72	2.273	2.037	0.03824	0.5732	20	0.9893	6.242	24
JapanCERI	st3	100208	A/A	Tamox	3.065	136.4	-5.876	-1.044	2.598	2.301	0.05002	0.1321	20	0.9899	6.535	24
JapanCERI	st3	100208	A/A	DHT	20.6	127.1	-4.103	-1.097	4.452	1.633	0.06814	0.1432	20	0.9811	6.016	24
JapanCERI	st3	100208	A/A	BPA	2.89	114.8	-4.646	-1.302	3.219	1.365	0.05035	0.1838	20	0.9895	5.06	24
JapanCERI	st3	100208	A/A	Kepone	-5.106	125.5	-3.7	-0.8246	24.09	2.852	0.1155	0.2773	20	0.9431	10.09	24
JapanCERI	st3	100208	A/A	BaA												24
JapanCERI	st3	100208	A/A	Progesterone												24
JapanCERI	st3	100215	A/A	E2	4.303	102.1	-8.793	-1.405	1.638	1.866	0.02497	0.1244	20	0.9913	4.198	24
JapanCERI	st3	100215	A/A	NE	11.4	103.4	-6.331	-1.135	1.418	1.083	0.01898	0.06695	20	0.9958	2.546	24
JapanCERI	st3	100215	A/A	DBP												21
JapanCERI	st3	100215	A/A	DBP-TC												24
JapanCERI	st3	100215	A/A	Zear	5.187	100.1	-6.001	-1.136	1.252	1.062	0.02788	0.1104	20	0.9955	3.128	24
JapanCERI	st3	100215	A/A	Tamox	5.469	106.1	-5.986	-1.419	1.567	1.381	0.02941	0.2412	20	0.9931	4.175	24
JapanCERI	st3	100215	A/A	DHT	15.95	100.4	-4.193	-0.6753	11.01	2.557	0.1403	0.1925	20	0.9333	8.154	24
JapanCERI	st3	100215	A/A	BPA	12.16	83.5	-4.58	-1.387	14.24	5.871	0.3064	0.984	20	0.6539	22.22	24
JapanCERI	st3	100215	A/A	Kepone	-1.724	102.2	-3.913	-0.8408	9	1.232	0.05315	0.144	20	0.9833	4.373	24
JapanCERI	st3	100215	A/A	BaA												24
JapanCERI	st3	100215	A/A	Progesterone												24
JapanCERI	st3	100223	A/A	E2	4.079	97.33	-8.891	-1.459	1.809	2.145	0.02889	0.1569	20	0.9878	4.76	24
JapanCERI	st3	100223	A/A	NE	11.01	95.98	-6.403	-1.11	1.655	1.279	0.02335	0.08215	20	0.9934	2.951	24
JapanCERI	st3	100223	A/A	DBP												21

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
JapanCERI	st3	100223	A/A	E2-TC	3.218	93.31	-8.006	-1.818	1.309	2.262	0.02858	0.7637	20	0.9879	4.649	24
JapanCERI	st3	100223	A/A	NE-TC	8.641	93.92	-5.608	-0.8757	2.498	1.639	0.06106	0.1135	20	0.9844	4.938	24
JapanCERI	st3	100223	A/A	Heptylphenol												24
JapanCERI	st3	100223	A/A	ELactone												24
JapanCERI	st3	100223	A/A	Atr												24
JapanCERI	st3	100224	A/A	E2	6.039	106.7	-8.803	-1.527	1.755	2.021	0.02614	0.1487	20	0.9902	4.643	24
JapanCERI	st3	100224	A/A	NE	9.151	111.1	-6.282	-1.046	1.517	1.152	0.01863	0.05678	20	0.9964	2.58	24
JapanCERI	st3	100224	A/A	DBP												21
JapanCERI	st3	100224	A/A	E2-TC	3.625	107.4	-7.841	-1.174	0.9989	1.766	0.02881	0.1189	20	0.9949	3.384	24
JapanCERI	st3	100224	A/A	NE-TC	3.918	109	-5.304	-1.01	2.313	1.466	0.04486	0.09745	20	0.9907	4.716	24
JapanCERI	st3	100224	A/A	Heptylphenol												24
JapanCERI	st3	100224	A/A	ELactone												24
JapanCERI	st3	100224	A/A	Atr												24
JapanCERI	st3	100225	A/A	E2	3.021	93.76	-8.858	-1.51	1.267	1.422	0.02036	0.1147	20	0.9939	3.31	24
JapanCERI	st3	100225	A/A	NE	8.046	94.95	-6.405	-1.173	1.07	0.7996	0.01436	0.05567	20	0.9973	1.937	24
JapanCERI	st3	100225	A/A	DBP												21
JapanCERI	st3	100225	A/A	E2-TC	1.588	93.37	-7.978	-1.42	0.852	1.45	0.02258	0.1927	20	0.9952	2.952	24
JapanCERI	st3	100225	A/A	NE-TC	4.278	94.33	-5.456	-1.092	1.175	0.7693	0.02701	0.06393	20	0.9965	2.511	24
JapanCERI	st3	100225	A/A	Heptylphenol												24
JapanCERI	st3	100225	A/A	ELactone												24
JapanCERI	st3	100225	A/A	Atr												24
JapanCERI	st3	100226	A/A	E2	2.946	100.2	-8.82	-1.413	1.092	1.247	0.01667	0.08423	20	0.996	2.807	24
JapanCERI	st3	100226	A/A	NE	8.09	98.47	-6.332	-1.37	1.717	1.227	0.02171	0.1069	20	0.9933	3.29	24
JapanCERI	st3	100226	A/A	DBP												21
JapanCERI	st3	100226	A/A	BPA	4.253	102	-4.678	-0.7386	5.341	1.775	0.07111	0.1153	20	0.9791	5.662	24
JapanCERI	st3	100226	A/A	Heptylphenol												24
JapanCERI	st3	100226	A/A	Progesterone												24
JapanCERI	st3	100301	A/A	E2	1.15	90.77	-8.828	-1.217	0.666	0.7501	0.01144	0.04446	20	0.9984	1.611	24
JapanCERI	st3	100301	A/A	NE	3.591	91.93	-6.08	-0.8333	2.202	1.105	0.0221	0.05743	20	0.9944	2.429	24
JapanCERI	st3	100301	A/A	DBP												21
JapanCERI	st3	100301	A/A	OTES												24
JapanCERI	st3	100303	A/A	E2	-0.6877	115.1	-8.734	-1.332	1.913	2.179	0.02525	0.1133	20	0.9917	4.81	24
JapanCERI	st3	100303	A/A	NE	2.993	109.3	-5.896	-1.057	3.292	1.693	0.03084	0.1022	20	0.9883	4.511	24
JapanCERI	st3	100303	A/A	DBP												21
JapanCERI	st3	100303	A/A	OTES												24
JapanCERI	st3	100305	A/A	E2	3.412	98.48	-8.761	-1.106	1.359	1.584	0.02216	0.07571	20	0.9941	3.193	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
JapanCERI	st3	100305	A/A	NE	10.33	96.27	-5.97	-0.9508	1.984	1.044	0.02257	0.0657	20	0.994	2.546	24
JapanCERI	st3	100305	A/A	DBP												21
JapanCERI	st3	100305	A/A	OTES												24
Lovelace	st1	6-Jan-09	A/U	DBP												20
Lovelace	st1	8-Jan-09	U/A	DBP												21
Lovelace	st1	1/13/2009	A/A	E2	4.36	102	-9.288	-1.136	2.218	3.851	0.04072	0.1486	20	0.9777	6.074	24
Lovelace	st1	1/13/2009	A/A	NE	4.209	106	-6.002	-0.9151	4.018	2.212	0.0397	0.1078	20	0.9829	5.143	24
Lovelace	st1	1/16/2009	A/A	E2	-6.615	97.3	-9.475	-0.755	4.024	8.375	0.07775	0.1573	20	0.9471	8.95	24
Lovelace	st1	1/16/2009	A/A	NE	-4.838	90.95	-6.199	-0.8641	3.792	1.971	0.03647	0.09744	20	0.9848	4.438	24
Lovelace	st1	1/6/2009	A/U	E2	7.568	160.6	-8.53	-0.8171	13.77	21.13	0.2059	0.3479	20	0.8018	29.89	24
Lovelace	st1	1/6/2009	A/U	NE	-4.775	191.5	-5.59	-0.7801	8.932	4.847	0.0597	0.09763	20	0.9819	9.716	24
Lovelace	st1	1/8/2009	U/A	E2	0.1309	152.2	-9.432	-0.5458	13.85	79.51	0.2068	0.3952	20	0.7276	25.63	24
Lovelace	st1	1/8/2009	U/A	NE	-2.478	129.2	-6.027	-0.8036	6.22	3.874	0.05241	0.1117	20	0.9768	7.628	24
Lovelace	st1	12/31/2008	U/U	E2	2.471	88.52	-10.99	-0.6067	1.031	33.56	0.04368	0.143	20	0.9813	2.301	24
Lovelace	st1	12/31/2008	U/U	NE	3.909	58.7	-6.878	-0.8879	2.279	1.206	0.0702	0.1072	20	0.9823	2.768	24
Lovelace	st1	13-Jan-09	A/A	DBP		99.45				2.396			17	0.948	8.3	21
Lovelace	st1	16-Jan-09	A/A	DBP												21
Lovelace	st1	31-Dec-08	U/U	DBP	44.33	58.93			121.4	1.263			17	0.621	4.376	21
Lovelace	st12	8-Dec-09	U/U	DBP												21
Lovelace	st12	1/29/2010	A/U	E2	-1.785	163.8	-8.966	-1.05	4.493	7.676	0.05824	0.1568	20	0.9705	11.76	24
Lovelace	st12	1/29/2010	A/U	NE	0.8449	167.1	-5.609	-0.6491	24.73	13.83	0.1775	0.2458	20	0.8697	22.06	24
Lovelace	st12	1-29-2010T	A/U	E2-TC												24
Lovelace	st12	1-29-2010T	A/U	DBP-TC	7.264	134.5	-3.812	-1.422	21.39	5.942	0.2053	1.371	20	0.8119	22.63	24
Lovelace	st12	1-29-2010T	A/U	EE2	-2.847	68.4	-9.721	-1.125	4.753	11.97	0.3459	0.7254	20	0.7537	17.32	24
Lovelace	st12	10/20/2009	U/	E2	1.46	169	-8.621	-0.8791	3.854	5.874	0.05071	0.09774	20	0.9832	8.773	24
Lovelace	st12	10-20-2009T	U/	E2-TC	-434651		-13.68		1.18E+10		8.604		20	0.8457	8.611	24
Lovelace	st12	10-20-2009T	U/	DBP-TC	-5.216	151	-4.816	-0.933	6.728	2.333	0.06577	0.1246	20	0.9833	8.228	24
Lovelace	st12	10-20-2009T	U/	EE2	-4.50E+08			-0.1053	2.69E+11			0.05468	20	0.8894	5.767	24
Lovelace	st12	10/27/2009	U/U	E2	20.38	142.3	-8.721	-1.355	6.886	9.641	0.1273	0.4379	20	0.8936	18.75	24
Lovelace	st12	10/27/2009	U/U	NE	-0.2932	166.4	-5.179	-0.544	43.24	14.92	0.2095	0.2644	20	0.8512	20.76	24
Lovelace	st12	10-27-2009T	U/U	E2-TC	-1.8E+07				5.85E+12				20	0.8732	10.94	24
Lovelace	st12	10-27-2009T	U/U	DBP-TC	-18.49	127.5	-3.785	-0.6863	33.47	3.428	0.1245	0.2305	20	0.9361	11.44	24
Lovelace	st12	10-27-2009T	U/U	EE2	-3.3E+07	289.7	-7.513	-0.03385	7.33E+12	449.3	0.2279	0.1193	20	0.9535	10.5	24
Lovelace	st12	11/12/2009	A/A	E2	2.332	97.87	-8.576	-1.069	4.6	4.749	0.07183	0.2381	20	0.9432	10.18	24
Lovelace	st12	11/12/2009	A/A	NE	7.114	96.86	-5.857	-0.9844	5.749	2.655	0.05841	0.1851	20	0.9591	6.934	24
Lovelace	st12	11/12/2009	A/A	E2-TC	-7.74	90	-8.784	-0.5801	3.14	6.101	0.1161	0.1152	20	0.9638	7.836	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Lovelace	st12	11/12/2009	A/A	DBP-TC	-25.91	90.18	-5.198	-0.4984	32.5	7.245	0.2567	0.2597	20	0.8239	18.53	24
Lovelace	st12	11/12/2009	A/A	EE2	2.187	104.5	-8.709	-0.7376	1.945	3.992	0.06498	0.101	20	0.9826	5.797	24
Lovelace	st12	12/4/2009	U/U	E2	0.3958	165	-8.899	-0.9661	3.926	6.794	0.05278	0.1231	20	0.978	9.856	24
Lovelace	st12	12/4/2009	U/U	NE	7.286				1.507				20	0.954	5.835	24
Lovelace	st12	12-4-2090T	U/U	E2-TC alt dil	17.32				3.234				20	0.4125	14.82	24
Lovelace	st12	12-4-2090T	U/U	E2-TC alt mix	7.411				4.579				20	0.7608	17.35	24
Lovelace	st12	12-4-2090T	U/U	E2-TC in 20% DMSO	2.819		-4.108	0.8698	3.244		0.09516	0.4617	20	0.7399	13.03	24
Lovelace	st12	12-4-2090T	U/U	E2-TC std dil	3.335		-4.182	0.9867	3.486		0.5353	0.5941	20	0.776	14.21	24
Lovelace	st12	12/8/2009	U/U	E2	-3.105	245.3	-8.694	-0.6061	15.11	47.9	0.1828	0.2276	20	0.8787	29.39	24
Lovelace	st12	12/8/2009	U/U	NE	18.31	149.1	-5.609	-1.006	4.71	2.641	0.05362	0.1136	20	0.9839	6.578	24
Lovelace	st12	12-8-2009T	U/U	E2-TC	-9.671		-10.23	-0.2062	17.22		0.3741	0.717	20	0.5002	23.72	24
Lovelace	st12	12-8-2009T	U/U	DBP-TC												24
Lovelace	st12	12-8-2009T	U/U	EE2												24
Lovelace	st12	12-Nov-09	A/A	DBP		99.67				1.252			17	0.9782	4.339	21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	14-May-10	U/U	DBP												21
Lovelace	st12	20-Oct-09	U/	DBP												21
Lovelace	st12	23-Sep-09	A/A	DBP												21
Lovelace	st12	27-Oct-09	U/U	DBP												21
Lovelace	st12	29-Apr-10	A/U	DBP												21
Lovelace	st12	29-Jan-10	A/U	DBP												21
Lovelace	st12	4/29/2010	A/U	E2	8.093	104.6	-8.853	-1.277	7.224	9.137	0.1195	0.5062	20	0.8436	18.52	24
Lovelace	st12	4/29/2010	A/U	NE	20.13	121.4	-6.297	-1.074	10.65	9.715	0.1712	0.4576	20	0.8199	20.27	24
Lovelace	st12	4-29-2010T	A/U	E2-TC	6.196	128.2	-9.783	-0.5395	4.475	61	0.1911	0.2892	20	0.8594	13.3	24
Lovelace	st12	4-29-2010T	A/U	DBP-TC	11.16	99	-5.448	-0.6595	12.22	7.178	0.2759	0.3354	20	0.7988	19.07	24
Lovelace	st12	4-29-2010T	A/U	EE2	4.178	196.2	-9.762	-0.4032	3.502	143.5	0.126	0.1578	20	0.9445	8.479	24
Lovelace	st12	4/7/2010	A/A	E2	-1.943	97.34	-9.468	-1.003	3.67	7.041	0.07052	0.215	20	0.9414	9.719	24
Lovelace	st12	4/7/2010	A/A	NE	2.996	102.5	-6.107	-0.9413	3.97	2.322	0.04059	0.116	20	0.981	5.403	24
Lovelace	st12	4/7/2010	A/A	E2-TC												24
Lovelace	st12	4/7/2010	A/A	DBP-TC	-7.144	76.88			6.228	2.647			20	0.9158	10.25	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Lovelace	st12	4/7/2010	A/A	EE2	-12.27		-11.04	-0.1504	8.075		1.958	0.1524	20	0.8346	8.935	24
Lovelace	st12	4-7-2010_2	A/A	E2	1.729	87.84	-9.422	-1.386	3.177	5.359	0.06556	0.3183	20	0.9396	9.378	24
Lovelace	st12	4-7-2010_2	A/A	NE	6.769	98.91	-6.166	-1.014	3.388	2.104	0.03897	0.1218	20	0.9818	5.054	24
Lovelace	st12	4-7-2010_2	A/A	E2-TC												24
Lovelace	st12	4-7-2010_2	A/A	DBP-TC	-8.102	80	-4.426	-1.365	7.296	2.744	0.142	0.489	20	0.9173	10.41	24
Lovelace	st12	4-7-2010_2	A/A	EE2	-13.05		-11.23	-0.1275	9.837		0.4337	0.04975	20	0.8327	8.271	24
Lovelace	st12	4-7-2010_3	A/A	E2	8.084	86.1	-9.446	-1.263	3.384	5.999	0.07859	0.3358	20	0.917	9.795	24
Lovelace	st12	4-7-2010_3	A/A	NE	0.1532	109.9	-6.245	-0.7911	3.261	2.227	0.03188	0.07128	20	0.9901	4.161	24
Lovelace	st12	4-7-2010_3	A/A	E2-TC												24
Lovelace	st12	4-7-2010_3	A/A	DBP-TC	-11.66	81.19	-5.191	-0.6649	16.52	5.054	0.2274	0.3045	20	0.8437	15.39	24
Lovelace	st12	4-7-2010_3	A/A	EE2												24
Lovelace	st12	5/14/2010	U/U	E2	9.212	241.6	-8.51	-0.9853	5.415	8.755	0.07021	0.1193	20	0.9802	13.45	24
Lovelace	st12	5/14/2010	U/U	NE	33.78	234.3	-5.28	-1.192	8.228	4.935	0.1304	0.1697	20	0.9751	13.33	24
Lovelace	st12	5/14/2010	U/U	E2-TC	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5/14/2010	U/U	E2-TC2	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010JCS	U/	E2												3
Lovelace	st12	5-14-2010JCS	U/	E2-TC	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010JCS	U/	E2-TC2	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010T	U/U	E2-TC	-5.918	156.1	-8.397	-0.5836	7.381	9.315	0.1475	0.1352	20	0.9505	15.99	24
Lovelace	st12	5-14-2010T	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T	U/U	EE2	15.22	152.8	-7.855	-0.6859	7.029	7.181	0.1877	0.1743	20	0.9398	15.78	24
Lovelace	st12	5-14-2010T2	U/U	E2-TC	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010T2	U/U	E2-TC												24
Lovelace	st12	5-14-2010T2	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T2	U/U	EE2												24
Lovelace	st12	5-14-2010T3	U/U	E2-TC												24
Lovelace	st12	5-14-2010T3	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T3	U/U	EE2												24
Lovelace	st12	5-14-2010T3	U/U	E2-TC2	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010T4	U/U	E2-TC												24
Lovelace	st12	5-14-2010T4	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T4	U/U	EE2												24
Lovelace	st12	5-14-2010T4	U/U	E2-TC2	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010T5	U/U	E2-TC												24
Lovelace	st12	5-14-2010T5	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T5	U/U	EE2												24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Lovelace	st12	5-14-2010T5	U/U	E2-TC2	5.536	158.9	-8.825	-1.388	3.978	5.265	0.08388	0.4395	20	0.9723	12.79	24
Lovelace	st12	5-14-2010T6	U/U	E2-TC	-5.918	156.1	-8.397	-0.5836	7.381	9.315	0.1475	0.1352	20	0.9505	15.99	24
Lovelace	st12	5-14-2010T6	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T6	U/U	EE2	15.22	152.8	-7.855	-0.6859	7.029	7.181	0.1877	0.1743	20	0.9398	15.78	24
Lovelace	st12	5-14-2010T6	U/U	E2-TC2	-81.2	55.82	-10.08	-1.388	3.555	4.705	0.2927	0.4395	20	0.9723	11.43	24
Lovelace	st12	5-14-2010T7	U/U	E2-TC	-5.918	156.1	-8.397	-0.5836	7.381	9.315	0.1475	0.1352	20	0.9505	15.99	24
Lovelace	st12	5-14-2010T7	U/U	DBP-TC												24
Lovelace	st12	5-14-2010T7	U/U	EE2	15.22	152.8	-7.855	-0.6859	7.029	7.181	0.1877	0.1743	20	0.9398	15.78	24
Lovelace	st12	5-14-2010T7	U/U	E2-TC2	-81.2	55.82	-10.08	-1.388	3.555	4.705	0.2927	0.4395	20	0.9723	11.43	24
Lovelace	st12	5-14-2010_2	U/U	E2	-25.48	465.5	-6.645	-0.3174	64.55	105.6	0.2498	0.1422	20	0.9396	30.97	24
Lovelace	st12	5-14-2010_2	U/U	NE												24
Lovelace	st12	7-Apr-10 #1	A/A	DBP												21
Lovelace	st12	7-Apr-10 #2	A/A	DBP												21
Lovelace	st12	7-Apr-10 #3	A/A	DBP												21
Lovelace	st12	9/23/2009	A/A	E2	-1.757	117.4	-8.557	-1.68	4.708	4.561	0.05362	0.3618	20	0.9565	12.02	24
Lovelace	st12	9/23/2009	A/A	NE	11.28	128.9	-5.827	-1.557	7.69	4.224	0.07434	0.3936	20	0.9345	13.3	24
Lovelace	st12	9/23/2009	A/A	E2-TC	8.328	73.69	-9.805	-1.112	4.594	27.28	0.3769	1.435	20	0.631	17.12	24
Lovelace	st12	9/23/2009	A/A	DBP-TC	13.64	111.5	-4.774	-0.7059	12.31	3.448	0.1627	0.2214	20	0.919	11.02	24
Lovelace	st12	9/23/2009	A/A	EE2	11.63				3.219				20	0.6445	11.15	24
Lovelace	st2	3-Mar-09	U/U	DBP	-140.6		-5.566		279.5		3.35		17	0.8869	13.22	21
Lovelace	st2	4-May-09	A/A	DBP												21
Lovelace	st2	5-Mar-09	U/U	DBP												21
Lovelace	st2	5-May-09	A/A	DBP												21
Lovelace	st2	6-May-09	A/A	DBP												21
Lovelace	st2	7-May-09	U/U	DBP												21
Lovelace	st2	8-May-09	A/A	DBP												21
Lovelace	st2	11-Mar-09	U/U	DBP												21
Lovelace	st2	17-Mar-09	U/A	DBP												21
Lovelace	st2	2/26/2009	A/A	E2	8.488	111.8	-9.178	-1.162	4.374	7.496	0.07868	0.2838	20	0.9269	12.05	24
Lovelace	st2	2/26/2009	A/A	NE	12.4	106.7	-6.482	-0.8752	9.787	9.223	0.1412	0.3349	20	0.8435	16.3	24
Lovelace	st2	2/26/2009	A/A	ButylPar												24
Lovelace	st2	2/26/2009	A/A	Cort												24
Lovelace	st2	2/26/2009	A/A	Equol												24
Lovelace	st2	2/26/2009	A/A	Hexestrol												24
Lovelace	st2	2/26/2009	A/A	NPhenol												24
Lovelace	st2	2/26/2009	A/A	DDT												24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Lovelace	st2	2/26/2009	A/A	DES												24
Lovelace	st2	2/26/2009	A/A	Gen												24
Lovelace	st2	2/26/2009	A/A	EE2				0.1888				0.2068	20	0.2974	74.54	24
Lovelace	st2	2/27/2009	A/A	E2	3.988	166.1	-8.963	-1.283	3.944	6.412	0.05342	0.1834	20	0.9749	11.13	24
Lovelace	st2	2/27/2009	A/A	NE	15.88	134.5	-6.022	-0.9564	8.668	6.488	0.1093	0.2414	20	0.9252	13.73	24
Lovelace	st2	2-27-2009T	A/A	ButylPar	44.54	144.6	-4.219	-0.7969	12.52	8.589	0.9103	0.4455	20	0.7797	24.29	24
Lovelace	st2	2-27-2009T	A/A	Cort												24
Lovelace	st2	2-27-2009T	A/A	Equol												24
Lovelace	st2	2-27-2009T	A/A	Hexestrol	27.23	58.67			4.933	5.844			20	0.5062	15.76	24
Lovelace	st2	2-27-2009T	A/A	NPhenol	31.08	114.5	-3.925	-0.6033	23.23	6.989	0.456	0.4078	20	0.7139	20.02	24
Lovelace	st2	2-27-2009T	A/A	DDT	-51.91	144	-3.206	-0.3953	493.4	14.97	0.3841	0.5778	20	0.5368	35.21	24
Lovelace	st2	2-27-2009T	A/A	DES	24.4	76.63	-5.964	-0.8485	5.372	4.204	0.2308	0.45	20	0.8152	11.62	24
Lovelace	st2	2-27-2009T	A/A	Gen	36.08	109.4			5.948	4.987			20	0.8443	15.98	24
Lovelace	st2	2-27-2009T	A/A	EE2												24
Lovelace	st2	26-Feb-09	A/A	DBP	23.05	104.4	-5.679	-0.6377	13.64	7.121	0.3056	0.3372	17	0.819	15.93	21
Lovelace	st2	27-Feb-09	A/A	DBP												21
Lovelace	st2	27-Mar-09	A/U	DBP												21
Lovelace	st2	3/11/2009	U/U	E2	-0.3333	104.5			11.27	7.971			20	0.7843	27.61	24
Lovelace	st2	3/11/2009	U/U	NE	-1.5E+07	254.7	-5.715	-0.07932	5.41E+12	750.7	0.2391	0.6872	20	0.7503	27.15	24
Lovelace	st2	3-11-2009T	U/U	ButylPar	-2.73E+08	127.9	-3.66	-0.2397	7.71E+12	7.709	0.2727	0.05782	20	0.8627	15.66	24
Lovelace	st2	3-11-2009T	U/U	Cort												24
Lovelace	st2	3-11-2009T	U/U	Equol	16.23	92.72			15.21	11.05			20	0.5141	37.78	24
Lovelace	st2	3-11-2009T	U/U	Hexestrol	23.59	76.37			11.61	16.3			20	0.3111	40.07	24
Lovelace	st2	3-11-2009T	U/U	NPhenol	38.19	136.3	-4.857	-1.537	13.25	9.164	0.4036	1.057	20	0.7029	31.21	24
Lovelace	st2	3-11-2009T	U/U	DDT	-2.36E+08	148.6	-3.054	-0.2706	1.44E+13	11.45	0.2338	0.1431	20	0.6331	27.38	24
Lovelace	st2	3-11-2009T	U/U	DES	18.92	105.7			9.486	6.724			20	0.7854	23.26	24
Lovelace	st2	3-11-2009T	U/U	Gen	44.06	155.8			18.18	13.77			20	0.6016	46.14	24
Lovelace	st2	3-11-2009T	U/U	EE2	15.48	50	-9.195	-2.933	3.568	0.000994	13.27	32.55	20	0.6084	12.37	24
Lovelace	st2	3/17/2009	U/A	E2	1.886		-9.431	-0.4825	33.86		2.988	1.313	20	0.5275	89.15	24
Lovelace	st2	3/17/2009	U/A	NE	1.122	108.6	-6.214	-1.301	4.755	3.119	0.04875	0.2173	20	0.9678	8.482	24
Lovelace	st2	3/27/2009	A/U	E2	-4.97	184.1	-8.685	-0.882	14.87	23.67	0.1747	0.3423	20	0.8273	34.4	24
Lovelace	st2	3/27/2009	A/U	NE	15.05	220.7	-5.658	-1.146	11.61	7.493	0.1063	0.2279	20	0.9528	19.16	24
Lovelace	st2	3-27-2009T	A/U	Cort												24
Lovelace	st2	3-27-2009T	A/U	Hexestrol	11.75		-9.283	-0.466	9.795		0.5313	0.3365	20	0.4329	33.67	24
Lovelace	st2	3-27-2009T	A/U	NPhenol	43.63	100.5			5.782	3.765			20	0.8101	14.08	24
Lovelace	st2	3-27-2009T	A/U	EE2	-1.822			-0.676	2.222			0.1837	20	0.8628	7.019	24

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Lovelace	st2	3/3/2009	U/U	E2	-0.5065	75.05	-9.429	-2.2	3.882	5.848	0.088	0.7717	20	0.8858	12.72	24
Lovelace	st2	3/3/2009	U/U	NE	-4.838	107.1	-6.707	-0.6481	8.499	8.364	0.08732	0.1618	20	0.9343	10.58	24
Lovelace	st2	3/3/2009	U/U	ButylPar												24
Lovelace	st2	3/3/2009	U/U	Cort												24
Lovelace	st2	3/3/2009	U/U	Equol												24
Lovelace	st2	3/3/2009	U/U	Hexestrol												24
Lovelace	st2	3/3/2009	U/U	NPhenol												24
Lovelace	st2	3/3/2009	U/U	DDT												24
Lovelace	st2	3/3/2009	U/U	DES												24
Lovelace	st2	3/3/2009	U/U	Gen	-8.537	179.7	-4.856	-0.2873	34.32	23.86	0.2765	0.1307	20	0.913	18.48	24
Lovelace	st2	3/3/2009	U/U	EE2		383.5		0.5865		127.9		0.6353	20	0.3084	203.4	24
Lovelace	st2	3/5/2009	U/U	E2	7.151	279.6	-8.447	-0.9298	6.12	10.36	0.0737	0.1085	20	0.9815	14.92	24
Lovelace	st2	3/5/2009	U/U	NE	0.1382	237.7	-5.517	-0.6561	34.51	24.15	0.2336	0.2685	20	0.8435	36.1	24
Lovelace	st2	3-6-2009T	U/U	ButylPar	23.5	248.9	-3.942	-0.7952	17.48	7.83	0.2451	0.2209	20	0.9379	24.54	24
Lovelace	st2	3-6-2009T	U/U	Cort												24
Lovelace	st2	3-6-2009T	U/U	Equol												24
Lovelace	st2	3-6-2009T	U/U	Hexestrol	24.17	258.6	-6.982	-0.4398	12.83	136.4	0.5484	0.2819	20	0.8049	31.75	24
Lovelace	st2	3-6-2009T	U/U	NPhenol	31.99	219.8	-4.399	-1.227	11.58	7.256	0.2543	0.4402	20	0.9271	24.39	24
Lovelace	st2	3-6-2009T	U/U	DDT	3.495	287	-3.07	-0.6521	61.34	9.716	0.2872	0.2477	20	0.8991	31.26	24
Lovelace	st2	3-6-2009T	U/U	DES	24.24	584.8	-4.831	-0.2227	29.96	974.7	0.631	0.1763	20	0.8955	27.12	24
Lovelace	st2	3-6-2009T	U/U	Gen	-26.88	248.1	-5.052	-0.7879	9.883	6.117	0.09422	0.1152	20	0.9795	17.86	24
Lovelace	st2	3-6-2009T	U/U	EE2	10.3	71.48	-8.233	-0.7203	5.806	12.8	0.3906	0.5057	20	0.6874	17.32	24
Lovelace	st2	5/4/2009	A/A	E2	0.4636	126.5	-8.829	-1.15	1.449	1.951	0.01981	0.06797	20	0.9956	3.639	24
Lovelace	st2	5/4/2009	A/A	NE	-0.5801	127.2	-5.71	-0.8255	8.416	3.786	0.06536	0.144	20	0.9667	8.494	24
Lovelace	st2	5/4/2009	A/A	Hexestrol	2.302	106.8	-9.124	-0.953	3.444	8.65	0.113	0.2972	20	0.9323	11.86	24
Lovelace	st2	5/4/2009	A/A	DES	3.924	130.3	-9.962	-0.5721	1.47	6.142	0.04784	0.05765	20	0.9915	4.187	24
Lovelace	st2	5/4/2009	A/A	EE2												24
Lovelace	st2	5/5/2009	A/A	E2	0.7219	86.58	-8.771	-1.582	4.204	4.261	0.07092	0.4094	20	0.9334	10.75	24
Lovelace	st2	5/5/2009	A/A	NE	6.066	90.58	-5.952	-1.061	5.364	2.59	0.05781	0.2072	20	0.9546	7.066	24
Lovelace	st2	5/5/2009	A/A	Cort	-2.4E+07	83.04	-4.825	-0.1495	4.42E+12	9.926	0.4719	0.08177	20	0.7789	10.77	24
Lovelace	st2	5/5/2009	A/A	Equol	0.08827	76.68	-6.543	-1.149	1.588	1.536	0.06408	0.1486	20	0.9869	4.346	24
Lovelace	st2	5/5/2009	A/A	Hexestrol												24
Lovelace	st2	5/5/2009	A/A	DDT	22.65	87.62	-6.589	-0.8825	5.936	4.091	0.206	0.3809	20	0.861	12.12	24
Lovelace	st2	5/5/2009	A/A	DES	3.916	74.84	-9.658	-0.9741	1.916	2.877	0.09847	0.1814	20	0.9684	5.996	24
Lovelace	st2	5/5/2009	A/A	EE2												24
Lovelace	st2	5/6/2009	A/A	E2	-3.004	151.2	-8.776	-0.9202	2.478	3.771	0.03158	0.07261	20	0.9915	5.8	24

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Lovelace	st2	5/6/2009	A/A	NE	-12.24	151.6	-5.621	-0.7215	7.516	3.131	0.0435	0.07895	20	0.9879	6.173	24
Lovelace	st2	5-6-2009T	A/A	Cort												24
Lovelace	st2	5-6-2009T	A/A	Equol	10.1	50			2.814	0.00039			20	0.8381	7.455	24
Lovelace	st2	5-6-2009T	A/A	Hexestrol	8.835	180.1	-9.241	-0.2741	8.466	212.7	0.2295	0.1923	20	0.8756	11.41	24
Lovelace	st2	5-6-2009T	A/A	DES	9.348	154.8	-9.092	-0.787	2.388	4.241	0.06965	0.08836	20	0.9877	7.147	24
Lovelace	st2	5-6-2009T	A/A	EE2	2.558		-10.88	-0.6477	3.223		0.9176	1.845	20	0.7311	12.28	24
Lovelace	st2	5/7/2009	U/U	E2	-30.28	7015	-7.465	-1.459	218.1	239.5	0.7192	0.2381	20	0.9713	559.3	24
Lovelace	st2	5/7/2009	U/U	NE												24
Lovelace	st2	5-7-2009T	U/U	ButylPar												24
Lovelace	st2	5-7-2009T	U/U	Cort												24
Lovelace	st2	5-7-2009T	U/U	Equol												24
Lovelace	st2	5-7-2009T	U/U	Hexestrol												24
Lovelace	st2	5-7-2009T	U/U	DDT												24
Lovelace	st2	5-7-2009T	U/U	Gen												24
Lovelace	st2	5/8/2009	A/A	E2	5.471	111.9	-8.542	-1.028	4.076	4.548	0.06169	0.182	20	0.9619	9.101	24
Lovelace	st2	5/8/2009	A/A	NE	-7.09	120.4	-5.393	-0.7261	35.45	7.842	0.1793	0.3681	20	0.8384	17.13	24
Lovelace	st2	5/8/2009	A/A	ButylPar	5.837	112.5	-4.119	-0.8863	13.68	3.67	0.1403	0.295	20	0.9018	13.05	24
Lovelace	st3	1-Jul-09	U/A	DBP												21
Lovelace	st3	1-Jun-09	A/A	DBP												21
Lovelace	st3	4-Jun-09	A/A	DBP												21
Lovelace	st3	8-Jun-09	A/A	DBP												21
Lovelace	st3	10-Jul-09	A/A	DBP												21
Lovelace	st3	10-Jun-09	A/A	DBP												21
Lovelace	st3	11-Jun-09	A/A	DBP												21
Lovelace	st3	12-Jun-09	U/U	DBP												21
Lovelace	st3	15-Jun-09	A/A	DBP												21
Lovelace	st3	6/1/2009	A/A	E2	2.414	106.7	-8.83	-1.157	2.046	2.562	0.03126	0.1136	20	0.988	5.026	24
Lovelace	st3	6/1/2009	A/A	NE	-2.054	106.5	-6.149	-0.9864	8.849	5.324	0.08428	0.2564	20	0.9202	12.7	24
Lovelace	st3	6/1/2009	A/A	E2-TC												24
Lovelace	st3	6/1/2009	A/A	Zear	-0.03282	96.73	-7.377	-0.8968	1.551	1.473	0.04137	0.0782	20	0.993	3.881	24
Lovelace	st3	6/1/2009	A/A	BPA	-3.385	104.3	-4.433	-0.739	8.049	2.042	0.07762	0.1309	20	0.9719	6.773	24
Lovelace	st3	6/1/2009	A/A	Nethdrel-TC	-2.321	84.02	-6.525	-0.6513	8.869	4.06	0.1697	0.2124	20	0.9083	11.38	24
Lovelace	st3	6/10/2009	A/A	E2	0.9932	117.7	-9.043	-0.9666	1.426	2.312	0.02207	0.06096	20	0.9945	3.507	24
Lovelace	st3	6/10/2009	A/A	NE	0.389	116.9	-6.044	-0.831	3.198	1.91	0.02897	0.06705	20	0.992	3.949	24
Lovelace	st3	6/10/2009	A/A	DBP-TC									20	0.5779	17.65	24
Lovelace	st3	6/10/2009	A/A	Tamox	5.949	91.94	-8.937	-0.6985	1.355	2.264	0.05142	0.06982	20	0.9903	3.722	24

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Lovelace	st3	6/10/2009	A/A	DHT	19.98	119.1	-5.796	-0.7667	5.604	1.936	0.09496	0.1295	20	0.9758	6.25	24
Lovelace	st3	6/10/2009	A/A	Heptylphenol												24
Lovelace	st3	6/10/2009	A/A	OTES												24
Lovelace	st3	6/11/2009	A/A	E2	1.163	135.5	-8.976	-0.996	2.817	4.634	0.04069	0.11	20	0.9835	7.078	24
Lovelace	st3	6/11/2009	A/A	NE	3.828	134.3	-5.898	-0.8743	3.643	2.186	0.03341	0.07357	20	0.9912	4.729	24
Lovelace	st3	6-11-2009T	A/A	DBP-TC	-249.8	129.9	-4.59	-0.6218	1716	2.358	0.06726	0.4364	20	0.943	7.76	24
Lovelace	st3	6-11-2009T	A/A	Tamox	4.784	87.7	-8.664	-0.7047	2.957	4.001	0.1086	0.1484	20	0.9603	7.581	24
Lovelace	st3	6-11-2009T	A/A	DHT	43.18	127.8			11	6.105			20	0.7607	22.22	24
Lovelace	st3	6-11-2009T	A/A	BaA												24
Lovelace	st3	6-11-2009T	A/A	OTES												24
Lovelace	st3	6-11-2009T	A/A	Atr												24
Lovelace	st3	6/12/2009	U/U	E2	33.73	304.2	-8.094	-1.095	8.633	13.52	0.1784	0.1871	20	0.9625	22.38	24
Lovelace	st3	6/12/2009	U/U	NE												24
Lovelace	st3	6-12-2009T	U/U	DBP-TC												24
Lovelace	st3	6-12-2009T	U/U	Tamox		282.9		-0.5794		10.56		0.09128	20	0.9767	15.18	24
Lovelace	st3	6-12-2009T	U/U	DHT												24
Lovelace	st3	6-12-2009T	U/U	BaA												24
Lovelace	st3	6-12-2009T	U/U	OTES												24
Lovelace	st3	6-12-2009T	U/U	Atr												24
Lovelace	st3	6/15/2009	A/A	E2	0.1897	111.5	-9.014	-0.9517	3.245	4.99	0.05081	0.1387	20	0.9715	7.771	24
Lovelace	st3	6/15/2009	A/A	NE	5.323	116.7	-5.998	-0.8497	6.178	3.711	0.06108	0.1403	20	0.9671	7.819	24
Lovelace	st3	6/15/2009	A/A	BaA												24
Lovelace	st3	6/15/2009	A/A	Atr												24
Lovelace	st3	6/4/2009	A/A	E2	1.392	109.1	-8.916	-0.856	4.41	6.544	0.07025	0.166	20	0.9509	9.776	24
Lovelace	st3	6/4/2009	A/A	NE	3.913	110.8	-6.057	-0.9224	3.107	1.862	0.03106	0.08276	20	0.9899	4.221	24
Lovelace	st3	6/4/2009	A/A	E2-TC												24
Lovelace	st3	6/4/2009	A/A	Zear	-3.202	114	-7.147	-0.6725	4.96	4.375	0.105	0.131	20	0.9643	10.15	24
Lovelace	st3	6/4/2009	A/A	BPA	7.758	116.7	-5.301	-0.9957	3.152	2.041	0.06383	0.1267	20	0.9838	6.502	24
Lovelace	st3	6/4/2009	A/A	Heptylphenol												24
Lovelace	st3	6/4/2009	A/A	Kepone	-44.23	113.8	-4.476	-0.5715	85.35	1.985	0.09358	0.1901	20	0.9638	6.227	24
Lovelace	st3	6/4/2009	A/A	ELactone												24
Lovelace	st3	6/4/2009	A/A	Progesterone												24
Lovelace	st3	6/4/2009	A/A	Nethdrel-TC	3.828	111.6	-5.92	-1.075	2.568	1.341	0.03915	0.1332	20	0.9912	4.52	24
Lovelace	st3	6/8/2009	A/A	E2	2.308	108.6	-8.812	-1.037	1.438	1.858	0.02213	0.06767	20	0.9944	3.396	24
Lovelace	st3	6/8/2009	A/A	NE	7.854	108	-6.019	-0.8701	5.861	3.45	0.06235	0.1521	20	0.9631	7.486	24
Lovelace	st3	6/8/2009	A/A	E2-TC												24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Lovelace	st3	6/8/2009	A/A	Zear	0.8922	96.34	-7.449	-0.7986	1.308	1.265	0.03583	0.05674	20	0.9951	3.133	24
Lovelace	st3	6/8/2009	A/A	BPA	2.321	109.8	-5.608	-0.7136	2.199	1.447	0.04369	0.05965	20	0.9934	3.904	24
Lovelace	st3	6/8/2009	A/A	Heptylphenol												24
Lovelace	st3	6/8/2009	A/A	Kepone	-134.5	106.1	-4.42	-0.5653	269.6	1.295	0.07125	0.1737	20	0.9815	4.08	24
Lovelace	st3	6/8/2009	A/A	ELactone	31.85	109	-3.57	-0.8784	9.317	2.103	0.1459	0.2616	20	0.9301	7.501	24
Lovelace	st3	6/8/2009	A/A	Progesterone												24
Lovelace	st3	6/8/2009	A/A	Nethdrel-TC	2.451	109.8	-5.863	-0.8742	2.46	1.1	0.03624	0.07766	20	0.9939	3.583	24
Lovelace	st3	7/1/2009	U/A	E2	4.76	112.2	-8.635	-2.882	3.966	3.942	0.04795	0.7019	20	0.9573	11.5	24
Lovelace	st3	7/1/2009	U/A	NE	9.744	133.3	-5.874	-0.9787	4.068	2.473	0.04201	0.1028	20	0.9861	5.841	24
Lovelace	st3	7/1/2009	U/A	E2-TC	-2.457	130.7	-9.097	-1.57	2.119	3.217	0.02735	0.1565	20	0.9891	6.298	24
Lovelace	st3	7/1/2009	U/A	DBP-TC												24
Lovelace	st3	7/1/2009	U/A	Zear	19.06	123.1	-8.145	-0.4873	5.961	17.68	0.2396	0.1908	20	0.8859	13.89	24
Lovelace	st3	7/1/2009	U/A	DHT	34.4	144.4	-4.58	-1.273	6.756	2.38	0.125	0.3146	20	0.9573	8.981	24
Lovelace	st3	7/1/2009	U/A	BPA	19.77	129.9	-5.103	-0.8802	4.279	2.751	0.1045	0.1479	20	0.9733	8.371	24
Lovelace	st3	7/1/2009	U/A	Kepone	38.28	133.1			7.493	2.943			20	0.9144	11.4	24
Lovelace	st3	7/1/2009	U/A	BaA												24
Lovelace	st3	7/1/2009	U/A	ELactone												24
Lovelace	st3	7/10/2009	A/A	E2	-1.319	112.8	-8.946	-0.8412	2.816	4.312	0.04273	0.09902	20	0.9813	6.234	24
Lovelace	st3	7/10/2009	A/A	NE	-8.031	112.4	-5.975	-0.7327	3.515	1.672	0.02487	0.0542	20	0.9941	3.249	24
Lovelace	st3	7/10/2009	A/A	E2-TC	-0.1456	111.8	-9.361	-0.7575	1.177	1.982	0.03457	0.05234	20	0.9953	3.404	24
Lovelace	st3	7/10/2009	A/A	DBP-TC												24
Lovelace	st3	7/10/2009	A/A	Tamox	4.139	80.93	-9.288	-0.6396	2.335	4.354	0.1107	0.124	20	0.9648	6.228	24
Lovelace	st3	7/10/2009	A/A	DHT	-2.632	58.8	-7.058	-0.7355	3.458	0.9215	0.1107	0.1011	20	0.983	3.032	24
Lovelace	st3	7/10/2009	A/A	BaA	-25.06	61	-5.555	-0.5503	890.2	1.498	0.3865	0.9037	20	0.6933	4.673	24
Lovelace	st3	7/10/2009	A/A	17EE	0.8872	97.87	-9.393	-0.7812	1.875	2.968	0.0621	0.09859	20	0.9849	5.411	24
Missouri	st1	4001	A/A	E2	-1.15	101.9	-9.126	-0.7993	3.084	5.124	0.05279	0.1164	20	0.972	6.754	24
Missouri	st1	4001	A/A	NE	2.025	107.4	-6	-0.8993	4.022	2.183	0.0378	0.1011	20	0.9845	5.025	24
Missouri	st1	4001	A/A	DBP												6
Missouri	st1	4001 2m	A/A	E2	0.378	88.43	-9.091	-1.068	2.618	3.574	0.05069	0.1585	20	0.9718	6.39	24
Missouri	st1	4001 2m	A/A	NE	0.5439	103.7	-6.033	-0.8357	5.112	2.701	0.04655	0.1167	20	0.977	5.86	24
Missouri	st1	4001 2m	A/A	DBP												9
Missouri	st1	4002	A/A	E2	0.8615	105.7	-9.108	-0.8488	1.931	3.23	0.03267	0.07793	20	0.9885	4.425	24
Missouri	st1	4002	A/A	NE	1.257	101.1	-6.034	-1.014	3.122	1.684	0.03049	0.09853	20	0.9881	4.281	24
Missouri	st1	4002	A/A	DBP												6
Missouri	st1	4003	A/A	E2	0.7419	102.7	-8.85	-1.206	5.003	6.1	0.07644	0.2989	20	0.9299	12.39	24
Missouri	st1	4003	A/A	NE	10.18	113.6	-5.919	-1.087	9.869	5.61	0.1068	0.3381	20	0.8896	14.66	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Missouri	st1	4003	A/A	DBP												21
Missouri	st1	4005	A/A	E2	-0.2007	95.96	-9.133	-1.06	2.279	3.374	0.04053	0.1292	20	0.9805	5.701	24
Missouri	st1	4005	A/A	NE	-3.781	104.7	-5.886	-0.7609	7.638	3.171	0.05612	0.1316	20	0.9695	6.65	24
Missouri	st1	4005	A/A	DBP												21
Missouri	st1	4006	A/A	E2	-0.6895	102.5	-9.081	-1.034	2.158	3.212	0.0356	0.1102	20	0.9849	5.342	24
Missouri	st1	4006	A/A	NE	2.717	100.9	-5.902	-1.099	4.757	2.341	0.04556	0.1674	20	0.9717	6.503	24
Missouri	st1	4006	A/A	DBP												21
Missouri	st1	4007	A/A	E2	0.4471	95.29	-9.15	-0.9647	2.015	3.086	0.03703	0.1028	20	0.9846	4.856	24
Missouri	st1	4007	A/A	NE	0.438	95.21	-6.023	-0.9226	6.587	2.747	0.05329	0.1606	19	0.9622	6.659	23
Missouri	st1	4007	A/A	DBP												21
Missouri	st1	5003	A/A	E2	-1.036	94.9	-8.974	-1.369	2.406	2.972	0.0387	0.1872	20	0.9795	6.278	24
Missouri	st1	5003	A/A	NE	9.199	99.19	-6.438	-0.8534	7.013	5.735	0.09327	0.2262	20	0.9182	10.62	24
Missouri	st1	5003	A/A	DBP												20
Missouri	st1	5005	A/U	E2	0.7431	107.2	-8.908	-1.392	1.613	2.01	0.02356	0.123	19	0.9924	4.234	23
Missouri	st1	5005	A/U	NE	-3.313	108.8	-6.034	-0.6556	8.179	4.13	0.06118	0.1171	20	0.9684	6.883	24
Missouri	st1	5005	A/U	DBP												21
Missouri	st1	5007	A/A	NE	6.313	104	-6.163	-0.9358	3.969	2.544	0.04412	0.1214	20	0.9789	5.675	24
Missouri	st1	5007	A/A	DBP												21
Missouri	st1	5007 stds only_E2		E2	1.33	100.2	-9.138	-1.173	1.394	2.099	0.02382	0.08994	20	0.9925	3.677	24
Missouri	st1	5010	A/A	E2	-1.597	100.4	-9.274	-1.159	1.578	2.59	0.02714	0.101	20	0.9901	4.275	24
Missouri	st1	5010	A/A	NE	-1.499	99.46	-6.694	-1.063	1.139	1.065	0.01469	0.04894	20	0.9974	2.182	24
Missouri	st1	5010	A/A	DBP												21
Missouri	st2	5006	A/A	E2	-1.1	103.9	-9.201	-1.099	1.284	2.065	0.02133	0.07305	20	0.9941	3.367	24
Missouri	st2	5006	A/A	NE	0.8222	97.13	-6.1	-1.103	4.327	2.417	0.04449	0.1615	20	0.9732	6.419	24
Missouri	st2	5006	A/A	DBP												21
Missouri	st2	5006	A/A	ButylPar	21.62	104	-3.907	-0.7474	10.22	2.221	0.1314	0.203	20	0.9383	7.497	24
Missouri	st2	5006	A/A	Cort												24
Missouri	st2	5006	A/A	Equol	2.631	99.55	-6.05	-0.7409	4.19	3.377	0.1004	0.1509	20	0.9634	8.63	24
Missouri	st2	5006	A/A	Hexestrol	-1.703	96.58	-7.453	-1.153	1.132	1.668	0.03664	0.09293	20	0.9938	3.702	24
Missouri	st2	5006	A/A	NPhenol	6.694	103.8	-4.953	-0.783	3.771	1.717	0.06322	0.1084	20	0.9835	5.33	24
Missouri	st2	5006	A/A	DDT	12.43	102.8	-4.741	-0.9305	5.949	2.558	0.1055	0.2446	20	0.9528	8.584	24
Missouri	st2	5006	A/A	DES	-1.564	100.7	-8.261	-1.006	1.026	2.611	0.0358	0.09682	20	0.993	3.615	24
Missouri	st2	5006	A/A	Gen	0.8869	102.4	-5.229	-0.9503	3.714	2.155	0.06752	0.1517	20	0.9776	6.916	24
Missouri	st2	5006	A/A	EE2	-0.5847	104.1	-8.497	-1.012	1.05	3.039	0.03731	0.08808	20	0.9918	3.814	24
Missouri	st2	5008	A/A	E2	1.561	96.94	-8.962	-1.56	1.805	2.206	0.02798	0.1751	20	0.9878	4.906	24

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Missouri	st2	5008	A/A	NE	5.326	98.77	-5.926	-1.329	4.301	2.215	0.04363	0.2113	20	0.9697	6.724	24
Missouri	st2	5008	A/A	DBP												21
Missouri	st2	5008	A/A	ButylPar	-204967	117.2	-3.25	-0.3337	5.92E+08	4.416	0.1072	0.2486	20	0.9069	9.273	24
Missouri	st2	5008	A/A	Cort												24
Missouri	st2	5008	A/A	Equol	13.66	110.7	-5.261	-1.063	2.785	1.821	0.06343	0.1359	20	0.9834	5.903	24
Missouri	st2	5008	A/A	Hexestrol	4.196	96.89	-7.044	-1.955	3.269	4.167	0.0752	2.166	20	0.9504	10.66	24
Missouri	st2	5008	A/A	NPhenol	14.74	115	-4.631	-0.8097	3.627	1.529	0.06401	0.1033	20	0.9867	4.881	24
Missouri	st2	5008	A/A	DDT	5.887	113.7	-4.192	-0.6549	13.86	3.094	0.1337	0.1779	20	0.94	9.732	24
Missouri	st2	5008	A/A	DES	1.471	121.1	-7.861	-0.8853	2.193	4.982	0.06354	0.1432	20	0.9805	7.196	24
Missouri	st2	5008	A/A	Gen	19.55	107.3	-4.618	-1.99	6.698	2.969	0.2815	1.544	20	0.9247	11.41	24
Missouri	st2	5008	A/A	EE2	7.326	106.2	-7.333	-2.254	1.696	2.404	0.0802	0.4917	20	0.9868	5.854	24
Missouri	st2	5009	A/A	E2	-1.141	111.8	-9.015	-1.172	1.694	2.432	0.02509	0.0937	20	0.992	4.39	24
Missouri	st2	5009	A/A	NE	-1.819	110.1	-5.716	-0.9623	4.729	1.91	0.03724	0.1138	20	0.9846	5.055	24
Missouri	st2	5009	A/A	DBP												21
Missouri	st2	5009	A/A	ButylPar	-3000	115.3	-3.24	-0.3466	159388	4.735	0.1225	0.294	20	0.8794	10.37	24
Missouri	st2	5009	A/A	Cort												24
Missouri	st2	5009	A/A	Equol	17.01	114.6	-5.088	-1.265	3.29	2.178	0.06796	0.2189	20	0.9755	7.301	24
Missouri	st2	5009	A/A	Hexestrol	4.991	115	-6.871	-0.9833	2.486	3.151	0.06516	0.1677	20	0.9814	7.238	24
Missouri	st2	5009	A/A	NPhenol	19.15	115	-4.183	-0.9695	3.698	1.263	0.05878	0.1122	20	0.9862	4.532	24
Missouri	st2	5009	A/A	DDT	17.2	113.2	-4.2	-0.8753	5.68	1.801	0.08471	0.1468	20	0.973	6.281	24
Missouri	st2	5009	A/A	DES	2.475	115.3	-7.385	-1.074	1.178	1.791	0.03377	0.07621	20	0.9948	3.824	24
Missouri	st2	5009	A/A	Gen	31.62	118.8			4.629	2.077			20	0.962	8.035	24
Missouri	st2	5009	A/A	EE2	7.821	108.6	-7.946	-1.33	2.754	5.498	0.07503	0.5202	20	0.9559	9.775	24
Missouri	st3	6001	A/U	E2	3.797	98.78	-8.887	-1.542	1.849	2.17	0.02856	0.1714	20	0.9876	4.938	24
Missouri	st3	6001	A/U	NE	3.695	106.7	-7.78	-1.19	1.655	2.819	0.02149	0.1155	14	0.9936	3.264	18
Missouri	st3	6001	A/U	DBP												20
Missouri	st3	6001	A/U	E2-TC	8.299	91.58	-8.9	-1.693	2.072	4.32	0.05833	0.7688	14	0.9726	6.126	18
Missouri	st3	6001	A/U	NE-TC	7.116	105.9	-6.097	-0.7921	8.546	2.622	0.08115	0.1641	14	0.9733	6.405	18
Missouri	st3	6001	A/U	DBP-TC												18
Missouri	st3	6001	A/U	Zear	12	115.3	-7.38	-0.7379	7.432	17.75	0.1529	0.315	11	0.9222	12.1	15
Missouri	st3	6001	A/U	Tamox	6.604	83.48	-7.166	-3.436	3.68	3.653	1.633	33.82	14	0.9534	8.961	18
Missouri	st3	6001	A/U	DHT												18
Missouri	st3	6001	A/U	BPA	11.63	97.29	-5.513	-0.942	5.351	3.531	0.134	0.2653	20	0.9298	10.95	24
Missouri	st3	6002	A/U	E2	-2.216	94.92	-9.041	-1.066	1.16	1.576	0.01993	0.06335	20	0.9954	2.825	24
Missouri	st3	6002	A/U	NE	2.384	92.34	-7.344	-1.627	3.649	4.826	0.05551	0.3676	17	0.9521	9.184	21
Missouri	st3	6002	A/U	DBP												21

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Missouri	st3	6002	A/U	E2-TC	5.271	99.97	-8.913	-1.507	1.951	4.791	0.04568	0.5181	14	0.9803	5.72	18
Missouri	st3	6002	A/U	NE-TC	-23.6	99.01	-6.389	-0.4667	31.89	5.173	0.1113	0.1601	14	0.9617	7.417	18
Missouri	st3	6002	A/U	DBP-TC												17
Missouri	st3	6002	A/U	Zear	6.607	91.52	-7.391	-1.048	3.683	5.572	0.09078	0.2504	11	0.9662	7.474	15
Missouri	st3	6002	A/U	Tamox	0.6771	103.4	-7.612	-0.8435	3.952	4.349	0.07956	0.1573	14	0.9752	7.528	18
Missouri	st3	6002	A/U	DHT	2.979	90.62	-5.183	-0.9833	623.9	4.775	0.7329	3.642	14	0.7085	13.1	18
Missouri	st3	6002	A/U	BPA	9.656	105.9	-5.629	-0.7916	7.739	5.403	0.1824	0.2876	20	0.8943	15.12	24
Missouri	st3	6005	A/A	E2	1.657	98.8	-9.063	-1.443	1.505	2.057	0.02438	0.132	20	0.9911	4.156	24
Missouri	st3	6005	A/A	NE	-2.504	107.2	-6.632	-0.9897	4.605	2.341	0.03024	0.1114	17	0.9898	4.345	21
Missouri	st3	6005	A/A	DBP												20
Missouri	st3	6005	A/A	E2-TC	4.552	100.5	-8.996	-3.475	2.541	7.36	0.0873	74.06	14	0.9671	7.621	18
Missouri	st3	6005	A/A	NE-TC	-1.518	108.3	-6.183	-1.201	10.45	4.751	0.1084	0.4274	14	0.9253	13.5	18
Missouri	st3	6005	A/A	DBP-TC												18
Missouri	st3	6005	A/A	Zear	10.39	130.3	-7.106	-0.8524	5.446	5.338	0.1037	0.1746	14	0.9687	9.94	18
Missouri	st3	6005	A/A	Tamox	3.796	100.4	-7.617	-1.031	2.39	2.531	0.05269	0.1307	14	0.9881	5.105	18
Missouri	st3	6005	A/A	DHT	15.4	106.2	-5.055	-0.8116	63.22	1.737	0.06775	0.4481	14	0.9664	4.463	18
Missouri	st3	6005	A/A	BPA	0.02567	109.8	-5.685	-0.8092	3.388	2.341	0.06716	0.1132	20	0.9828	6.654	24
Missouri	st3	6006	A/A	E2	2.622	95.6	-9.109	-1.22	2.549	3.414	0.04206	0.172	17	0.9775	6.227	21
Missouri	st3	6006	A/A	NE	8.546	94.29	-6.752	-1.534	3.607	2.937	0.04613	0.2728	17	0.9682	7.067	21
Missouri	st3	6006	A/A	DBP												18
Missouri	st3	6006	A/A	E2-TC	4.349	79.87			2.061	10.72			14	0.9637	6.184	18
Missouri	st3	6006	A/A	NE-TC	-12.7	100.6	-6.192	-0.7588	12.27	2.771	0.07237	0.1687	14	0.9749	6.698	18
Missouri	st3	6006	A/A	DBP-TC												18
Missouri	st3	6006	A/A	Zear	5.684	92.33	-7.427	-1.007	2.706	2.613	0.06353	0.1482	14	0.9829	5.471	18
Missouri	st3	6006	A/A	Tamox	5.198	94.58	-7.684	-0.9178	1.108	1.301	0.02575	0.05833	12	0.9971	2.229	16
Missouri	st3	6006	A/A	DHT	44.44	91.51			42.32	2.29			14	0.8897	6.87	18
Missouri	st3	6006	A/A	BPA	1.49	101.6	-5.622	-0.7444	3.135	2.061	0.06379	0.09463	19	0.9849	5.573	23
Missouri	st3	6007	A/A	E2	-1.248	109.3	-8.872	-1.393	2.484	3.02	0.03427	0.1711	20	0.9836	6.488	24
Missouri	st3	6007	A/A	NE	0.4982	107.5	-6.598	-1.154	4.759	2.586	0.03523	0.1553	17	0.9849	5.434	21
Missouri	st3	6007	A/A	DBP												21
Missouri	st3	6007	A/A	E2-TC	14.66	108.7			5.481	46.85			14	0.8509	16.44	18
Missouri	st3	6007	A/A	NE-TC	7.759	117.8	-6.329	-1.036	6.051	2.926	0.08017	0.1832	14	0.975	7.866	18
Missouri	st3	6007	A/A	DBP-TC												18
Missouri	st3	6007	A/A	Zear	9.743	122.6	-7.29	-1.057	3.503	3.539	0.07202	0.157	14	0.9818	7.446	18
Missouri	st3	6007	A/A	Tamox	31.12	115.2			8.17	19.92			14	0.6905	24.51	18
Missouri	st3	6007	A/A	DHT												18

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Missouri	st3	6007	A/A	BPA	15.33	128.6	-5.13	-0.6493	7.277	4.456	0.1594	0.1551	20	0.9476	11.56	24
Missouri	st3	6009	A/A	E2	-1.868	107.3	-9.261	-0.8675	2.103	3.887	0.03543	0.08874	20	0.9859	5.035	24
Missouri	st3	6009	A/A	NE	0.1349	88.51	-6.675	-1.397	3.2	2.796	0.04662	0.2349	20	0.9713	6.902	24
Missouri	st3	6009	A/A	DBP												21
Missouri	st3	6009	A/A	Heptylphenol												24
Missouri	st3	6009	A/A	Kepone	0.415	101.2	-3.749	-0.9278	20.14	1.875	0.1016	0.3448	20	0.9545	6.812	24
Missouri	st3	6009	A/A	BaA												24
Missouri	st3	6009	A/A	ELactone												24
Missouri	st3	6009	A/A	Progesterone												24
Missouri	st3	6009	A/A	OTES												24
Missouri	st3	6009	A/A	Atr												24
Missouri	st3	6009b	A/A	DBP												21
Missouri	st3	6009b	A/A	Heptylphenol												24
Missouri	st3	6009b	A/A	Kepone	0.415	101.2	-3.749	-0.9278	20.14	1.875	0.1016	0.3448	20	0.9545	6.812	24
Missouri	st3	6009b	A/A	BaA												24
Missouri	st3	6009b	A/A	ELactone												24
Missouri	st3	6009b	A/A	Progesterone												24
Missouri	st3	6009b	A/A	OTES												23
Missouri	st3	6009b	A/A	Atr												24
Missouri	st3	6010	A/A	E2	-2.831	85.7	-9.447	-0.8367	1.756	3.12	0.03986	0.08497	20	0.9861	4.055	24
Missouri	st3	6010	A/A	NE	-0.08222	83.85	-6.873	-0.9721	3.079	2.936	0.05063	0.1398	20	0.9749	5.598	24
Missouri	st3	6010	A/A	DBP												21
Missouri	st3	6010	A/A	Heptylphenol	-4.867	89.19	-3.254	-0.8274	227.7	2.006	0.2667	1.014	20	0.865	7.152	24
Missouri	st3	6010	A/A	Kepone	-46.93	87.61	-3.828	-0.6429	61.03	1.26	0.07348	0.1828	20	0.978	4.165	24
Missouri	st3	6010	A/A	BaA												24
Missouri	st3	6010	A/A	ELactone												24
Missouri	st3	6010	A/A	Progesterone												23
Missouri	st3	6010	A/A	OTES												24
Missouri	st3	6010	A/A	Atr												23
Missouri	st3	6011	A/A	E2	4.716	110.7	-8.979	-1.207	2.517	3.328	0.03724	0.1457	19	0.9828	6.095	23
Missouri	st3	6011	A/A	NE	8.431	107.2	-6.425	-1.137	8.436	3.792	0.06233	0.2641	17	0.9584	8.213	21
Missouri	st3	6011	A/A	DBP												21
Missouri	st3	6011	A/A	Heptylphenol												24
Missouri	st3	6011	A/A	Kepone	8.941	116.6	-3.769	-0.891	10.52	1.859	0.0819	0.2022	20	0.9675	6.676	24
Missouri	st3	6011	A/A	BaA												24
Missouri	st3	6011	A/A	ELactone												24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Missouri	st3	6011	A/A	Progesterone												24
Missouri	st3	6011	A/A	OTES												24
Missouri	st3	6011	A/A	Atr												24
Missouri	st3	6502	A/A	E2	-1.905	102.1	-9.119	-0.9759	1.855	2.855	0.03087	0.08792	20	0.989	4.507	24
Missouri	st3	6502	A/A	NE	-0.7623	102.4	-6.005	-0.9926	8.73	4.543	0.08068	0.2557	20	0.9228	11.51	24
Missouri	st3	6502	A/A	DBP												21
Missouri	st3	6502	A/A	Heptylphenol												24
Missouri	st3	6502	A/A	Kepone	-162.6	121.4	-3.391	-0.5035	506	2.99	0.115	0.2552	20	0.941	8.845	24
Missouri	st3	6502	A/A	BaA												23
Missouri	st3	6502	A/A	ELactone												24
Missouri	st3	6502	A/A	Progesterone												24
Missouri	st3	6502	A/A	OTES												21
Missouri	st3	6502	A/A	Atr												23
Missouri	st3	6503	A/A	E2	-1.051	91.4	-9.052	-1.203	1.211	1.594	0.02148	0.08217	20	0.9943	3.076	24
Missouri	st3	6503	A/A	NE	-0.1095	96.59	-6.589	-1.157	4.316	3.634	0.05529	0.2101	20	0.9628	8.253	24
Missouri	st3	6503	A/A	DBP												21
Missouri	st3	6503	A/A	Heptylphenol												23
Missouri	st3	6503	A/A	Kepone	-1.74E+11	104.3	-3.415	-0.5349	4.96E+12	1.696	0.07826	0.1039	20	0.9708	5.589	24
Missouri	st3	6503	A/A	BaA												24
Missouri	st3	6503	A/A	ELactone												24
Missouri	st3	6503	A/A	Progesterone												23
Missouri	st3	6503	A/A	OTES												24
Missouri	st3	6503	A/A	Atr												24
Missouri	st3	6504	A/A	E2	-0.8957	89.96	-8.976	-1.072	4.176	5.267	0.07577	0.239	20	0.9393	9.936	24
Missouri	st3	6504	A/A	NE	3.782	87.49	-6.082	-1.4	5.399	2.923	0.06232	0.3261	20	0.9391	8.894	24
Missouri	st3	6504	A/A	DBP												20
Missouri	st3	6504	A/A	Heptylphenol												24
Missouri	st3	6504	A/A	Kepone	13.59	95.88	-3.59	-1.159	69.17	4.087	0.4949	2.006	20	0.738	15.32	24
Missouri	st3	6504	A/A	BaA												20
Missouri	st3	6504	A/A	ELactone												24
Missouri	st3	6504	A/A	Progesterone												21
Missouri	st3	6504	A/A	OTES												23
Missouri	st3	6504	A/A	Atr												24
Missouri	st4	2206	A/A	E2	-2.724	93.03	-9.623	-1.107	2.472	5.03	0.05163	0.1812	20	0.966	7.038	24
Missouri	st4	2206	A/A	NE	-3.815	96.23	-6.88	-0.8625	3.3	3.468	0.04455	0.1099	20	0.9798	5.734	24
Missouri	st4	2206	A/A	DBP												21

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Missouri	st4	2206	A/A	Cort-1												24
Missouri	st4	2206	A/A	Dex-1												24
Missouri	st4	2206	A/A	Nethdrone-1	26.88	90.5	-6.117	-1.278	3.366	2.622	0.1046	0.3644	17	0.9441	7.548	21
Missouri	st4	2206	A/A	HPTE-1	17.08	91.97	-6.953	-1.687	3.401	3.483	0.07982	1.33	17	0.9467	9.014	21
Missouri	st4	2206	A/A	Gen-1	14.01	91.53			2.533	2.789			20	0.9618	7.865	24
Missouri	st4	2206	A/A	BPA-1	14.79	89.87			2.697	2.217			20	0.9658	7.164	24
Missouri	st4	2206	A/A	OTES-1												24
Missouri	st4	2206	A/A	Nethdrone-2	29.04	98.5	-6.044	-1.372	4.854	3.821	0.1412	0.5432	17	0.9047	11.1	21
Missouri	st4	2210	A/A	E2	-3.933	86.51	-9.92	-1.187	2.944	6.731	0.0748	0.2827	19	0.9404	8.602	23
Missouri	st4	2210	A/A	NE	-6.481	94.34	-7.054	-1.167	3.261	4.082	0.04933	0.1856	19	0.9708	7.517	23
Missouri	st4	2210	A/A	DBP												21
Missouri	st4	2210	A/A	Cort-1												21
Missouri	st4	2210	A/A	Dex-1												24
Missouri	st4	2210	A/A	Nethdrone-1	17.47	81.77	-6.835	-1.752	3.048	3.13	0.134	1.212	20	0.9283	9.089	24
Missouri	st4	2210	A/A	HPTE-1	1.266	79.87	-7.391	-1.184	2.731	3.816	0.1228	0.3555	20	0.9499	8.755	24
Missouri	st4	2210	A/A	Gen-1	79.16	34.5	-7.61	1.933	19.21	13.38	1.761	8.86	20	0.1828	46.11	24
Missouri	st4	2210	A/A	BPA-1	-10.31	84.3	-6.683	-1.054	1.783	1.766	0.05498	0.1116	20	0.9891	4.846	24
Missouri	st4	2210	A/A	OTES-1												23
Missouri	st4	2210	A/A	Nethdrone-2	17.48	82.74	-6.718	-1.502	4.075	4.137	0.1724	0.7721	20	0.8842	11.96	24
Missouri	st4	2211	A/A	E2	0.3753	97.9	-9.288	-1.072	1.861	3.124	0.03404	0.1125	20	0.9853	4.893	24
Missouri	st4	2211	A/A	NE	1.019	91.42	-6.786	-1.407	2.157	2.128	0.0324	0.1644	20	0.9856	4.986	24
Missouri	st4	2211	A/A	DBP												21
Missouri	st4	2211	A/A	Cort-1												22
Missouri	st4	2211	A/A	Dex-1												24
Missouri	st4	2211	A/A	Nethdrone-1	24.21	96.97	-6.685	-1.296	4.093	4.495	0.188	0.705	20	0.8993	12.07	24
Missouri	st4	2211	A/A	HPTE-1	12.47	99.66	-7.044	-1.026	2.761	3.778	0.09018	0.2536	20	0.9607	8.426	24
Missouri	st4	2211	A/A	Gen-1												24
Missouri	st4	2211	A/A	BPA-1	12.21	97.61	-6.234	-0.9449	2.125	2.028	0.06417	0.131	20	0.9827	5.445	24
Missouri	st4	2211	A/A	OTES-1												24
Missouri	st4	2211	A/A	Nethdrone-2	28.39	94.5	-6.396	-1.188	3.455	3.536	0.1716	0.391	20	0.9175	9.816	24
Missouri	st4	2301	A/A	E2	2.454	86.14	-9.302	-1.007	2.327	3.109	0.04234	0.1274	18	0.9805	4.833	22
Missouri	st4	2301	A/A	NE	7.804	83.63	-6.727	-1.085	4.57	4.119	0.07855	0.2649	20	0.933	8.7	24
Missouri	st4	2301	A/A	DBP												21
Missouri	st4	2301	A/A	BPA-2	-1.359	90.09	-6.59	-0.9702	2.6	2.586	0.07707	0.1526	20	0.9762	6.892	24
Missouri	st4	2301	A/A	Dex-2												24
Missouri	st4	2301	A/A	Nethdrone-3	26.8	86.63			4.352	4.932			20	0.8322	13.66	24

Laboratory	SubTask	Test	Acceptability (EPA's judgment) (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	LogIC ₅₀ (Std Error)	Hillslope (Std Error)	DF	r ²	Syx	N
Missouri	st4	2301	A/A	Cort-2												24
Missouri	st4	2301	A/A	HPTE-2	1.734	71.71	-7.489	-1.356	3.127	4.204	0.188	0.5603	19	0.925	9.866	23
Missouri	st4	2301	A/A	OTES-2												24
Missouri	st4	2301	A/A	Nethdrone-4	21.72	74.44	-6.791	-1.69	4.415	4.472	0.2285	1.5	20	0.8087	13.08	24
Missouri	st4	2301	A/A	Gen-2												24
Missouri	st4	2302	A/A	E2	-0.9259	97.29	-9.27	-1.427	2.127	3.337	0.03649	0.1876	20	0.98	6.179	24
Missouri	st4	2302	A/A	NE	-0.965	98.03	-6.905	-1.071	2.406	2.712	0.03479	0.1171	20	0.9857	5.08	24
Missouri	st4	2302	A/A	DBP												21
Missouri	st4	2302	A/A	BPA-2	1.638	92.76	-6.264	-1.158	2.202	2.074	0.0605	0.1915	20	0.9828	5.926	24
Missouri	st4	2302	A/A	Dex-2												24
Missouri	st4	2302	A/A	Nethdrone-3	18.54	96.83	-6.524	-1.435	5.564	5.615	0.2195	0.6869	20	0.8563	16.22	24
Missouri	st4	2302	A/A	Cort-2												23
Missouri	st4	2302	A/A	HPTE-2	10.11	101.2	-6.98	-1.395	3.162	4.021	0.07913	0.6168	20	0.9532	9.986	24
Missouri	st4	2302	A/A	OTES-2												24
Missouri	st4	2302	A/A	Nethdrone-4	47.23	106.9	-6.105	-1.894	6.233	6.318	1.275	3.074	20	0.7303	18.59	24
Missouri	st4	2302	A/A	Gen-2												23
Missouri	st4	2305	A/A	E2	-5.812	89.56	-9.766	-0.9243	3.427	7.421	0.07677	0.2011	19	0.9469	8.385	23
Missouri	st4	2305	A/A	NE	7.677	79.57	-6.939	-1.52	5.342	5.721	0.1077	0.6038	20	0.8618	13.33	24
Missouri	st4	2305	A/A	DBP												21
Missouri	st4	2305	A/A	BPA-2	38.21	77.49			8.907	10.43			20	0.3243	29.69	24
Missouri	st4	2305	A/A	Dex-2												19
Missouri	st4	2305	A/A	Nethdrone-3		93.83				7.379			20	0.5395	19.94	24
Missouri	st4	2305	A/A	Cort-2												23
Missouri	st4	2305	A/A	HPTE-2	26.32	73.76			6.263	8.914			20	0.5345	21.72	24
Missouri	st4	2305	A/A	OTES-2												24
Missouri	st4	2305	A/A	Nethdrone-4	45.25	82.1			6.339	6.544			20	0.4913	19.22	24
Missouri	st4	2305	A/A	Gen-2	50	254.8			0.02836	852.9			19	0.8237	32.34	23

Table C-2. PRISM Fits for Test Chemicals, FWA

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st1	20081123	A	E2	2.026	93.84	-8.743	-1.553	2.335	2.893	0.04263	0.2507	23	0.9726	7.218	27
Ceetox	st1	20081123	A	NE	9.561	87.25	-6.182	-1.589	2.76	2.52	0.0458	0.2819	20	0.9697	6.408	24
Ceetox	st1	20081123	A/A	DBP												21
Ceetox	st1	20081124	U	E2	-0.0878	81.73	-8.928	-1.064	2.618	3.724	0.06703	0.1954	23	0.9583	7.469	27
Ceetox	st1	20081124	A	NE	0.516	87.7	-6.335	-0.9256	4.848	4.002	0.06334	0.183	20	0.9597	7.255	24
Ceetox	st1	20081124	U/A	DBP												21
Ceetox	st1	20081218	A	E2	0.2938	103.8	-8.78	-0.9607	2.791	4.947	0.05382	0.1524	22	0.9685	7.773	26
Ceetox	st1	20081218	A	NE	4.302	93.44	-6.209	-1.18	3.174	2.797	0.04404	0.1756	20	0.9764	6.063	24
Ceetox	st1	20081218	A/A	DBP												21
Ceetox	st2	20090124	A/A	DBP												21
Ceetox	st2	20090124	A/A	ButylPar	24.29	85.63			18.72	5.158			20	0.7668	17.25	24
Ceetox	st2	20090124	A/A	Cort	18310000	45.81	-7.086	-0.2421	4.81E+12	6.496	1.704	0.1465	20	0.5595	13.72	24
Ceetox	st2	20090124	A/A	Equol	2.832			-1.242	3.56			1.942	20	0.7324	10.35	24
Ceetox	st2	20090124	A/A	Hexestrol	8.757		-9.917	-0.4403	1.528		0.06146	0.2854	20	0.9068	5.125	24
Ceetox	st2	20090124	A/A	NPhenol	22.17	72.87			3.479	3.461			20	0.865	10.4	24
Ceetox	st2	20090124	A/A	DDT	25.08	71.69			4.059	3.674			20	0.8119	11.42	24
Ceetox	st2	20090124	A/A	DES	4.448	5528	-9.51	-0.25	5.032	556531	0.1397	0.2001	19	0.9131	6.61	23
Ceetox	st2	20090124	A/A	Gen												24
Ceetox	st2	20090124	A/A	E2-TC	7.152			-0.8835	1.879			0.2985	19	0.8422	6.223	23
Ceetox	st2	20090124 BAD	A	E2	0.6388	92.76	-9.363	-0.9873	1.625	4.038	0.03972	0.1121	22	0.9799	4.983	26
Ceetox	st2	20090124 BAD	A	NE	6.112	83.44	-6.278	-1.322	2.598	2.35	0.04394	0.1997	20	0.9761	5.437	24
Ceetox	st2	20090128	U/U	DBP												21
Ceetox	st2	20090128	U/U	ButylPar	15.11	81.69	-5.945	-1.002	4.191	3.179	0.1324	0.3704	20	0.9185	9.469	24
Ceetox	st2	20090128	U/U	Cort	1.985	110.4	-8.656	0.2174	58.18	16.98	0.27	0.162	19	0.8965	8.808	23
Ceetox	st2	20090128	U/U	Equol	1.19	67.82	-7.6	-0.8063	1.817	2.4	0.1109	0.1411	20	0.9746	4.97	24
Ceetox	st2	20090128	U/U	Hexestrol												24
Ceetox	st2	20090128	U/U	NPhenol	16.28	74.41			3.122	4.031			20	0.8667	12.09	24
Ceetox	st2	20090128	U/U	DDT	15.52	73.06			4.04	3.185			20	0.8857	10.48	24
Ceetox	st2	20090128	U/U	DES												24
Ceetox	st2	20090128	U/U	Gen	16.59		-9.895	-1.158	1.862		1.001	1.647	20	0.8096	7.7	24
Ceetox	st2	20090128	U/U	EE2												24
Ceetox	st2	20090128 BAD	U	E2	0.8702	79.71	-9.016	-1.167	1.251	1.82	0.03349	0.1101	23	0.9888	3.715	27
Ceetox	st2	20090128 BAD	U	NE	4.687	72.81	-6.381	-1.342	3.581	3.16	0.07706	0.3171	20	0.9444	7.449	24
Ceetox	st2	20090202	A/A	DBP												21
Ceetox	st2	20090202	A/A	ButylPar	3.267	71.19	-5.264	-0.5774	21.57	5.488	0.3579	0.3953	20	0.7151	15.61	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st2	20090202	A/A	Cort												24
Ceetox	st2	20090202	A/A	Equol	5.952	78.21	-7.219	-0.9841	2.59	3.257	0.1092	0.2659	20	0.9547	7.52	24
Ceetox	st2	20090202	A/A	Hexestrol	2.739	68.03	-8.375	-0.691	1.082	2.287	0.07647	0.08071	20	0.9872	3.127	24
Ceetox	st2	20090202	A/A	NPhenol	13.69	81.74	-5.538	-1.32	5.434	3.713	0.1743	0.4929	20	0.8746	12.45	24
Ceetox	st2	20090202	A/A	DDT	19.56	81.02			3.106	2.78			20	0.9285	8.679	24
Ceetox	st2	20090202	A/A	DES	3.697	450.5	-10.07	-0.4365	0.8145	2343	0.04206	0.1448	20	0.98	2.211	24
Ceetox	st2	20090202	A/A	Gen	11.96	77.34	-7.767	-1.285	2.473	3.703	0.1134	0.3663	20	0.9333	8.299	24
Ceetox	st2	20090202	A/A	EE2												24
Ceetox	st2	20090202 BAD	A	E2	-0.05909	90.99	-9.167	-0.9601	1.629	2.99	0.03877	0.1005	23	0.9839	4.772	27
Ceetox	st2	20090202 BAD	A	NE	-1.926	86.58	-6.233	-1.191	4.504	3.643	0.06724	0.2584	19	0.9591	8.126	23
Ceetox	st2	20090213 TEST4	A	E2	-2.691	107.2	-8.706	-1.162	1.863	2.257	0.05195	0.1536	23	0.9869	6.149	27
Ceetox	st2	20090213 TEST4	U	NE	5.833	81.58			5.844	5.844			20	0.8077	20.24	24
Ceetox	st2	20090213 TEST4	A/U	DBP												21
Ceetox	st2	20090213 TEST4_2	A	E2	0.8086	106.6	-8.62	-1.048	1.633	1.968	0.0484	0.1133	23	0.9896	5.239	27
Ceetox	st2	20090213 TEST4_2	U	NE	16.43	82.81			5.401	5.401			20	0.8044	18.71	24
Ceetox	st2	20090213TEST	A/U	Cort	50	108.5	-10.37	3.773								24
Ceetox	st2	20090213TEST	A/U	Gen	-2.717	103.4	-7.17	-1.888	2.057	2.138	0.06176	0.6287	19	0.9879	6.022	23
Ceetox	st2	20090213TEST	A/U	EE2	-5.598	101.7	-8.672	-1.178	4.33	2.978	0.08511	0.2408	20	0.9657	9.732	24
Ceetox	st2	20090213TEST	A/U	EE2_2	-6.22	104.7	-8.641	-1.212	4.826	3.319	0.09294	0.2661	20	0.96	10.92	24
Ceetox	st2	20090213TEST_2	A/U	Cort		134.6		0.1147		118.5		0.2023	20	0.3379	18.18	24
Ceetox	st2	20090213TEST_2	A/U	Gen	5.479	102.7	-7.134	-1.888	1.885	1.959	0.05259	0.6288	19	0.9879	5.518	23
Ceetox	st2	20090213TEST_2	A/U	EE2	2.838	101.2	-8.615	-1.178	3.968	2.729	0.08745	0.2408	20	0.9657	8.919	24
Ceetox	st2	20090213TEST_2	A/U	EE2_2	2.268	103.9	-8.588	-1.212	4.423	3.042	0.09563	0.266	20	0.96	10.01	24
Ceetox	st2	20090213_b	A/U	Cort		134.6		0.1147		118.5		0.2023	20	0.3379	18.18	24
Ceetox	st2	20090213_b	A/U	Gen	5.479	102.7	-7.134	-1.888	1.885	1.959	0.05259	0.6288	19	0.9879	5.518	23
Ceetox	st2	20090213_b	A/U	EE2	2.838	101.2	-8.615	-1.178	3.968	2.729	0.08745	0.2408	20	0.9657	8.919	24
Ceetox	st2	20090213_b	A/U	EE2_2	2.268	103.9	-8.588	-1.212	4.423	3.042	0.09563	0.266	20	0.96	10.01	24
Ceetox	st2	20090213b	A/U	DBP												21
Ceetox	st2	20090223	A	E2	1.997	103.2	-8.451	-1.122	2.831	3.394	0.05153	0.1795	23	0.9712	7.854	27
Ceetox	st2	20090223	A	NE	10.39	94.26	-5.998	-1.54	2.022	1.61	0.02791	0.1778	20	0.9881	4.241	24
Ceetox	st2	20090223	A/A	DBP												21
Ceetox	st2	20090223	A/A	ButylPar	-53.01	101.8	-4.418	-0.4124	57.11	3.812	0.1261	0.1356	20	0.9473	9.023	24
Ceetox	st2	20090223	A/A	Cort												24
Ceetox	st2	20090223	A/A	Equol	-1.57	94.14	-6.871	-0.8768	4.14	4.639	0.1187	0.2317	20	0.9438	11.05	24
Ceetox	st2	20090223	A/A	Hexestrol	-2.649	101.7	-7.467	-1.336	1.685	2.453	0.05174	0.1501	20	0.9877	5.651	24
Ceetox	st2	20090223	A/A	NPhenol	0.4365	101.6	-5.606	-0.8276	3.502	2.257	0.07124	0.1224	20	0.9795	6.664	24
Ceetox	st2	20090223	A/A	DDT	19.32	100.1	-5.629	-1.134	2.344	1.698	0.07259	0.2026	20	0.9815	5.354	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st2	20090223	A/A	DES	0.4006	97.38	-8.133	-1.321	1.465	3.151	0.04677	0.2777	20	0.9853	5.296	24
Ceetox	st2	20090223	A/A	Gen	-2.415	97.53	-6.983	-1.152	2.713	2.134	0.05437	0.2259	20	0.9824	6.5	24
Ceetox	st2	20090223	A/A	EE2	-0.2691	94.61	-8.415	-1.157	4.873	3.187	0.1065	0.2783	20	0.947	10.54	24
Ceetox	st2	20090307	A	E2	3.225	100.6	-8.738	-1.413	2.697	3.521	0.04817	0.2436	23	0.9672	8.252	27
Ceetox	st2	20090307	A	NE	4.01	104.3	-6.167	-0.9348	2.676	2.315	0.0315	0.0913	20	0.9897	4.169	24
Ceetox	st2	20090307	A/A	DBP												21
Ceetox	st2	20090307	A/A	ButylPar	-5.201	115.3	-4.596	-0.5382	15.46	3.971	0.1392	0.1445	20	0.9433	10.66	24
Ceetox	st2	20090307	A/A	Cort												24
Ceetox	st2	20090307	A/A	Equol	-0.1291	111.9	-6.65	-1.041	1.53	1.625	0.03768	0.09147	20	0.9939	4.257	24
Ceetox	st2	20090307	A/A	Hexestrol	5.211	115.8	-7.424	-1.435	1.391	1.394	0.03657	0.1075	20	0.9948	4.046	24
Ceetox	st2	20090307	A/A	NPhenol	10.66	116.7	-5.973	-2.022	3.232	3.044	0.05064	1.681	20	0.9714	9.245	24
Ceetox	st2	20090307	A/A	DDT	20.82	113.9	-6.876	-2.3	2.372	2.086	0.1582	2.914	20	0.9812	6.525	24
Ceetox	st2	20090307	A/A	DES	1.313	118.5	-8.087	-1.075	1.574	2.216	0.0388	0.1133	20	0.9923	4.939	24
Ceetox	st2	20090307	A/A	Gen	2.871	111.9	-7.11	-1.31	1.513	1.442	0.03101	0.1458	20	0.9941	4.198	24
Ceetox	st2	20090307	A/A	EE2	4.458	115.1	-8.466	-1.204	3.093	2.114	0.06431	0.1631	20	0.9832	6.964	24
Ceetox	st2	20090307	A/A	Buffer Control												24
Ceetox	st2	20090307	A/A	SDS												24
Ceetox	st2	20090307	A/A	Total Binding												24
Ceetox	st2	20090326	A	E2	1.837	108.4	-8.591	-1.073	1.69	2.289	0.03036	0.09723	23	0.9898	4.773	27
Ceetox	st2	20090326	A	NE	6.24	107.5	-6.307	-0.7778	4.468	8.444	0.07091	0.1777	20	0.948	8.495	24
Ceetox	st2	20090326	A/A	DBP												21
Ceetox	st2	20090326	A/A	ButylPar	-9.564	114.4	-4.547	-0.473	13.03	2.745	0.09432	0.08736	20	0.9748	6.722	24
Ceetox	st2	20090326	A/A	Cort												24
Ceetox	st2	20090326	A/A	Equol	2.014	101.2	-6.751	-1.061	1.855	1.994	0.04949	0.1344	20	0.9885	5.208	24
Ceetox	st2	20090326	A/A	Hexestrol	1.651	108.9	-7.621	-1.167	1.833	1.893	0.04719	0.1298	20	0.9904	5.203	24
Ceetox	st2	20090326	A/A	NPhenol	10.32	115.7	-5.793	-0.7878	4.075	3.314	0.09953	0.1506	20	0.969	8.719	24
Ceetox	st2	20090326	A/A	DDT	18.46	107	-5.683	-0.9146	2.728	2.131	0.07984	0.1551	20	0.9794	6.075	24
Ceetox	st2	20090326	A/A	DES	2.535	129.1	-8.384	-0.813	1.628	2.909	0.04611	0.07294	20	0.9922	4.957	24
Ceetox	st2	20090326	A/A	Gen	1.808	96.41	-7.232	-0.9964	2.25	2.064	0.05816	0.1423	20	0.9846	5.715	24
Ceetox	st2	20090326	A/A	EE2	1.539	97.07	-8.313	-1.806	1.785	1.777	0.0612	0.3253	20	0.9887	5.274	24
Ceetox	st2	20090326	A/A	Buffer Control												24
Ceetox	st2	20090326	A/A	SDS	-3.18	106.4			17.43	2.681			20	0.9645	9.963	24
Ceetox	st3	20090418	A	E2	2.253	103.1	-8.742	-1.249	2.595	3.567	0.04698	0.1936	23	0.9716	7.762	27
Ceetox	st3	20090418	A	NE	1.535	111.8	-6.116	-0.8563	4.345	3.61	0.04478	0.1157	20	0.9812	6.035	24
Ceetox	st3	20090418	A/A	DBP												21
Ceetox	st3	20090418	A/A	E2-TC	-0.693	115.6	-8.775	-0.8215	1.311	2.761	0.03854	0.07338	20	0.9932	4.124	24
Ceetox	st3	20090418	A/A	NE-TC	2.584	113.9	-6.301	-0.7647	7.407	4.303	0.1336	0.1966	20	0.9386	12.59	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st3	20090418	A/A	DBP-TC												24
Ceetox	st3	20090418	A/A	Zear	22.76	65.52			9.258	13.11			20	0.3083	32.08	24
Ceetox	st3	20090418	A/A	Tamox	1.788	119.8	-7.775	-0.832	2.42	5.305	0.07185	0.1401	20	0.9771	7.706	24
Ceetox	st3	20090418	A/A	DHT	7.978	119.8	-5.595	-0.7352	3.825	2.765	0.08369	0.1113	20	0.9795	7.332	24
Ceetox	st3	20090418	A/A	BPA	6.672	113.9	-6.096	-0.9609	4.008	2.823	0.08719	0.1831	20	0.972	8.572	24
Ceetox	st3	20090418	A/A	Heptylphenol	2.051	105.2			82.21	1.882			20	0.9627	7.29	24
Ceetox	st3	20090418	A/A	Kepone	13.39	101.9	-5.083	-1.268	4.218	2.686	0.08384	0.3628	20	0.9539	9.054	24
Ceetox	st3	20090418	A/A	ELactone	16.14	102.4	-4.304	-0.6041	21.5	3.006	0.1811	0.2387	20	0.8966	9.328	24
Ceetox	st3	20090418	A/A	Progesterone												24
Ceetox	st3	20090418	A/A	OTES												24
Ceetox	st3	20090418 DMS	DMSO(A)	E2	-0.7077	108.3	-8.809	-0.836	2.365	4.023	0.04487	0.1004	23	0.9802	6.293	27
Ceetox	st3	20090418 DMS	DMSO(A)	NE	2.711	104.9	-6.191	-1.01	3.502	3.156	0.04224	0.1346	20	0.9806	6.009	24
Ceetox	st3	20090418 DMSO	DMSO(A)/DMSO(A)	DBP												21
Ceetox	st3	20090418B	A/A	Atr												24
Ceetox	st3	20090418B	A/A	Atr-2												24
Ceetox	st3	20090418B	A/A	TB (Solvent only)												24
Ceetox	st3	20090418B	A/A	TB (Solvent only) 2												24
Ceetox	st3	20090418DMSO	A/A	BaA_DMSO		112.8				107.5			20	0.8915	9.242	24
Ceetox	st3	20090418DMSO	A/A	Buffer Control												24
Ceetox	st3	20090418DMSO	DMSO(A)/DMSO(A)	SDS	0.1567	113.8			4.282	2.472			20	0.9635	10.49	24
Ceetox	st3	20090426	A	E2	1.665	113.2	-8.778	-0.9499	3.231	5.313	0.05979	0.1565	23	0.9632	9.133	27
Ceetox	st3	20090426	U	NE	2.797	108.1	-5.297	-1.66	4.532	1.499	0.0293	0.2116	20	0.986	5.05	24
Ceetox	st3	20090426	A/U	DBP												21
Ceetox	st3	20090426	A/U	E2-TC	5.95	100.7	-6.793	-1.48	3.624	2.632	0.08709	0.5142	20	0.9668	8.705	24
Ceetox	st3	20090426	A/U	NE-TC	5.428	109	-6.141	-0.9068	6.62	3.785	0.1209	0.2434	20	0.9373	11.99	24
Ceetox	st3	20090426	A/U	DBP-TC												24
Ceetox	st3	20090426	A/U	Zear	2.596		-8.721	-0.2493	8.408		1.054	0.4786	20	0.7784	18.49	24
Ceetox	st3	20090426	A/U	Tamox	0.1768	95.08	-6.765	-1.13	1.804	1.886	0.04903	0.1427	20	0.9882	5.102	24
Ceetox	st3	20090426	A/U	DHT	10.22	102.9	-5.72	-1.22	3.568	2.592	0.0886	0.3155	20	0.9673	8.3	24
Ceetox	st3	20090426	A/U	BPA	5.979	106.6	-5.782	-1.009	2.197	1.653	0.04886	0.129	20	0.9895	4.951	24
Ceetox	st3	20090426	A/U	Heptylphenol	2.214	88.81			491	3.718			20	0.8229	14.4	24
Ceetox	st3	20090426	A/U	Kepone	13.84	90.23	-5.004	-3.467	13.2	8.089	0.3167	231.1	20	0.6104	28.78	24
Ceetox	st3	20090426	A/U	ELactone	40.29	112.5	-3.799	-0.9846	6.971	2.53	0.2264	0.3105	20	0.9153	9.022	24
Ceetox	st3	20090426	A/U	Progesterone												24
Ceetox	st3	20090426	A/U	OTES												24
Ceetox	st3	20090426B	A/U	DBP-TC												24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st3	20090426B	A/U	Zear												24
Ceetox	st3	20090426B	A/U	Atr												24
Ceetox	st3	20090426B	A/U	TB (Solvent only)												24
Ceetox	st3	20090505	A	E2	0.5067	88.48	-8.816	-1.21	1.574	2.115	0.03375	0.1282	23	0.9865	4.633	27
Ceetox	st3	20090505	A	NE	0.6021	95.98	-6.312	-0.9611	2.639	2.403	0.0333	0.1013	20	0.9878	4.36	24
Ceetox	st3	20090505	DMSO(A)/DMSO(A)	DBP												21
Ceetox	st3	20090505	A/A	E2-TC	-0.09827	83.44	-8.768	-1.219	1.327	1.348	0.04177	0.1183	20	0.9918	3.781	24
Ceetox	st3	20090505	A/A	NE-TC	2.761	92.36	-6.345	-0.7966	2.921	1.563	0.05829	0.0989	20	0.9855	4.756	24
Ceetox	st3	20090505	A/A	DBP-TC												24
Ceetox	st3	20090505	A/A	Zear	3.401	85.13	-7.926	-1.17	1.751	1.272	0.0422	0.1607	20	0.9897	4.037	24
Ceetox	st3	20090505	A/A	Tamox	1.352	83.43	-7.91	-1.125	1.607	2.595	0.05877	0.1809	20	0.9805	5.328	24
Ceetox	st3	20090505	DMSO(A)/DMSO(A)	DHT	11.14	85.25	-6.023	-1.893	2.15	1.81	0.04356	1.308	20	0.9771	5.718	24
Ceetox	st3	20090505	A/A	BPA	8.814	92	-6.036	-1.577	1.986	1.744	0.04195	0.5276	20	0.9838	5.344	24
Ceetox	st3	20090505	A/A	Heptylphenol	-1.76E+12	88.64	-4.538	-0.6666	7.86E+12	1.92	0.07438	0.1011	20	0.9526	7	24
Ceetox	st3	20090505	A/A	Kepone	7.981	86.74	-5.409	-1.043	2.828	1.78	0.0722	0.1686	20	0.9753	5.788	24
Ceetox	st3	20090505	A/A	ELactone	30.01	92.91	-4.273	-0.8515	6.875	2.341	0.1762	0.2839	20	0.9097	7.968	24
Ceetox	st3	20090505	A/A	Progesterone												24
Ceetox	st3	20090505	A/A	OTES												24
Ceetox	st3	20090505 DMSO	DMSO(A)	E2	1.749	91.64	-8.797	-1.063	2.507	3.556	0.05392	0.1699	23	0.9681	7.142	27
Ceetox	st3	20090505 DMSO	DMSO(A)	NE	1.62	90.81	-6.313	-0.9113	3.835	3.239	0.04873	0.1398	20	0.9753	5.739	24
Ceetox	st3	20090505 DMSO	A/A	DBP												21
Ceetox	st3	20090505DMSO	A/A	Zear												24
Ceetox	st3	20090505DMSO	A/A	BaA_DMSO												24
Ceetox	st3	20090505DMSO	A/A	Buffer Control												24
Ceetox	st3	20090505DMSO	A/A	SDS												24
Ceetox	st3	20090505chem14	A/A	Atr												24
Ceetox	st3	20090505chem14	A/A	Atr-2												24
Ceetox	st3	20090505chem14	A/A	TB (Solvent only)												24
Ceetox	st3	20090505chem14	A/A	TB (Solvent only) 2												24
Ceetox	st3	20090514 DMSO	DMSO(A)	E2	2.71	86.7	-8.951	-1.352	1.936	2.75	0.0432	0.1964	23	0.9758	5.982	27
Ceetox	st3	20090514 DMSO	DMSO(A)	NE	10.48	95.51	-6.052	-1.258	2.959	2.416	0.04157	0.184	20	0.9781	5.625	24
Ceetox	st3	20090514 DMSO	DMSO(A)/DMSO(A)	DBP												21
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	BaA_DMSO												24
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	Buffer Control												24
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	blank1												24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st3	20090514DMSO	DMSO(A)/DMSO(A)	blank2												24
Ceetox	st4	20090911A	A	E2	0.6804	96.71	-9.007	-1.142	1.546	2.518	0.03182	0.1113	23	0.9873	4.697	27
Ceetox	st4	20090911A	A	NE	5.832	99.74	-5.994	-1.189	3.277	2.442	0.03897	0.1623	20	0.9812	5.642	24
Ceetox	st4	20090911A	A/A	DBP												21
Ceetox	st4	20090911A	A/A	Cort-1												24
Ceetox	st4	20090911A	A/A	Dex-1												24
Ceetox	st4	20090911A	A/A	Nethdrone-1	4.525	103.5	-5.92	-1.277	2.449	1.981	0.04941	0.2764	20	0.9846	6.092	24
Ceetox	st4	20090911A	A/A	HPTE-1	1.078	102	-6.651	-1.02	1.691	1.765	0.04501	0.1035	20	0.9911	4.651	24
Ceetox	st4	20090911A	A/A	Gen-1	2.88	83.41	-6.659	-1.207	2.043	2.052	0.06893	0.1758	20	0.9796	5.784	24
Ceetox	st4	20090911A	A/A	BPA-1	3.133	106.9	-5.633	-0.9131	4.092	2.806	0.08586	0.1716	20	0.9704	8.453	24
Ceetox	st4	20090911A	A/A	OTES-1												24
Ceetox	st4	20090911A	A/A	Nethdrone-2	2.575	95.84	-6.02	-1.245	2.175	1.81	0.04596	0.2463	20	0.9859	5.475	24
Ceetox	st4	20090911A	A/A	BPA-2	3.659	94.59	-5.775	-0.9183	2.935	2.043	0.06794	0.1448	20	0.9797	6.129	24
Ceetox	st4	20090911A	A/A	Dex-2												24
Ceetox	st4	20090911A	A/A	Nethdrone-3	3.984	99.21	-6	-0.8754	2.165	1.755	0.05177	0.1072	20	0.9884	4.848	24
Ceetox	st4	20090911A	A/A	Cort-2												24
Ceetox	st4	20090911A	A/A	HPTE-2	-1.779	90.02	-6.667	-1.425	1.622	1.63	0.04757	0.1561	20	0.9898	4.72	24
Ceetox	st4	20090911B	A/A	OTES-2												24
Ceetox	st4	20090911B	A/A	Nethdrone-4	4.119	89.94	-6.07	-1.678	2.004	1.754	0.04511	0.6484	20	0.9845	5.412	24
Ceetox	st4	20090911B	A/A	Gen-2	2.896	83.78	-6.635	-1.318	1.946	1.95	0.06594	0.184	20	0.9814	5.594	24
Ceetox	st4	20090914	A/A	Cort-1												24
Ceetox	st4	20090914	A/A	Dex-1												24
Ceetox	st4	20090914	A/A	Nethdrone-1	7.501	103.2	-5.935	-1.164	1.657	1.382	0.03673	0.1535	20	0.9923	4.119	24
Ceetox	st4	20090914	A/A	HPTE-1	4.741	99.21	-6.537	-1.082	1.45	1.469	0.04129	0.09542	20	0.9925	4.015	24
Ceetox	st4	20090914	A/A	Gen-1	-2.702	100.4	-6.617	-0.8728	1.794	1.853	0.04693	0.08419	20	0.9911	4.638	24
Ceetox	st4	20090914	A/A	BPA-1	7.949	106.8	-5.486	-0.8954	4.644	3.056	0.1028	0.1876	20	0.9603	9.287	24
Ceetox	st4	20090914	A/A	OTES-1												24
Ceetox	st4	20090914	A/A	Nethdrone-2	8.398	95.23	-6.042	-1.429	1.875	1.67	0.04101	0.3396	20	0.9867	5.034	24
Ceetox	st4	20090914	A/A	BPA-2	41.93	98.17			7.687	7.377			20	0.6219	22.45	24
Ceetox	st4	20090914	A/A	Dex-2												24
Ceetox	st4	20090914	A/A	Nethdrone-3	4.097	101.9	-5.855	-0.8918	1.902	1.437	0.04297	0.09106	20	0.992	4.111	24
Ceetox	st4	20090914	A/A	Cort-2												24
Ceetox	st4	20090914A	A	E2	2.322	94.99	-8.776	-1.356	2.07	2.73	0.03951	0.1862	23	0.9785	6.278	27
Ceetox	st4	20090914A	A	NE	8.423	96.23	-5.956	-1.305	3.516	2.562	0.04415	0.2151	20	0.974	6.35	24
Ceetox	st4	20090914A	A/A	DBP												21
Ceetox	st4	20090914B	A/A	HPTE-2	0.6386	101.5	-6.585	-1.25	1.369	1.384	0.03667	0.1021	20	0.994	3.913	24
Ceetox	st4	20090914B	A/A	OTES-2												24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Ceetox	st4	20090914B	A/A	Nethdrone-4	6.015	102.1	-5.877	-0.9098	2.4	1.866	0.05605	0.1241	20	0.9864	5.318	24
Ceetox	st4	20090914B	A/A	Gen-2	-0.1379	94.51	-6.587	-0.9123	2.008	2.026	0.05692	0.1065	20	0.9868	5.235	24
Ceetox	st4	20090917A	A	E2	2.489	99.41	-8.746	-1.263	2.257	3.053	0.04212	0.1773	23	0.9768	6.748	27
Ceetox	st4	20090917A	A	NE	10.5	92.65	-6.029	-1.335	2.831	2.234	0.04001	0.1983	20	0.9784	5.462	24
Ceetox	st4	20090917A	A/A	DBP												21
Ceetox	st4	20090917A	A/A	Cort-1												24
Ceetox	st4	20090917A	A/A	Dex-1												24
Ceetox	st4	20090917A	A/A	Nethdrone-1	9.475	95.39			2.261	2.083			20	0.9789	6.432	24
Ceetox	st4	20090917A	A/A	HPTE-1	4.942	95.5	-6.681	-1.144	1.432	1.479	0.04182	0.1153	20	0.9918	4.047	24
Ceetox	st4	20090917A	A/A	Gen-1	-0.6885	83.86	-6.604	-1.142	1.928	1.914	0.064	0.1482	20	0.9838	5.359	24
Ceetox	st4	20090917A	A/A	BPA-1	6.737	97.48	-5.665	-0.9593	3.608	2.472	0.08478	0.1848	20	0.9692	7.596	24
Ceetox	st4	20090917A	A/A	OTES-1												24
Ceetox	st4	20090917A	A/A	Nethdrone-2	9.46	87.95	-6.05	-1.803	1.862	1.637	0.04236	0.8736	20	0.9839	5.068	24
Ceetox	st4	20090917A	A/A	BPA-2	5.537	74.36	-5.874	-0.9808	8.567	5.695	0.2767	0.5586	20	0.7644	17.88	24
Ceetox	st4	20090917A	A/A	Dex-2												24
Ceetox	st4	20090917A	A/A	Nethdrone-3	11.5	83.12	-6.107	-1.954	1.761	1.632	0.07257	1.205	20	0.9815	4.978	24
Ceetox	st4	20090917A	A/A	Cort-2												24
Ceetox	st4	20090917B	A/A	HPTE-2	2.061	86.67	-6.687	-1.217	1.302	1.316	0.0408	0.1111	20	0.9923	3.703	24
Ceetox	st4	20090917B	A/A	OTES-2												24
Ceetox	st4	20090917B	A/A	Nethdrone-4	8.139	89.56	-5.963	-0.9511	2.005	1.548	0.05312	0.1327	20	0.9866	4.496	24
Ceetox	st4	20090917B	A/A	Gen-2	12.42	80.96	-6.691	-1.382	1.856	1.874	0.07151	0.2416	20	0.9763	5.388	24
Dietrich	st1	Assay01	U	E2	0.1828		-10.4	-0.652	2.547		0.07984	0.0949	23	0.9522	9.093	27
Dietrich	st1	Assay01	U	NE	15.8	205.4	-5.242	-1.252	11.91	6.394	0.09183	0.2712	20	0.9576	16.87	24
Dietrich	st1	Assay01	U/U	DBP												21
Dietrich	st1	Assay02	U	E2	-0.1917	130.5	-8.715	-0.7012	2.483	4.936	0.04353	0.07388	23	0.9852	6.07	27
Dietrich	st1	Assay02	U	NE	-9.912	133.2	-5.522	-0.6568	11	3.959	0.0469	0.09777	20	0.9845	5.954	24
Dietrich	st1	Assay02	U/U	DBP												21
Dietrich	st1	Assay03	A	E2	1.471	92.85	-8.845	-1.278	3.322	4.6	0.06681	0.2831	23	0.9441	10.03	27
Dietrich	st1	Assay03	A	NE	3.191	100.3	-5.568	-1.131	8.184	3.144	0.05988	0.2594	20	0.9555	8.268	24
Dietrich	st1	Assay03	A/A	DBP												21
Dietrich	st2	Assay04	A	E2	0.3062	90.39	-9.037	-0.9597	2.669	4.494	0.06237	0.1629	23	0.9605	7.632	27
Dietrich	st2	Assay04	A	NE	8.795	101.3	-6.444	-1.191	3.269	4.004	0.05321	0.2113	20	0.9659	7.554	24
Dietrich	st2	Assay04	A/A	DBP												21
Dietrich	st2	Assay04	A/A	ButylPar												24
Dietrich	st2	Assay04	A/A	Cort	35.71	91.01			7.496	10.6			20	0.55	25.96	24
Dietrich	st2	Assay04	A/A	Equol	6.427	140.2	-4.838	-0.7139	24.15	4.977	0.1884	0.2694	20	0.8898	16.51	24
Dietrich	st2	Assay04	A/A	Hexestrol	17.09	135.1	-7.786	-2.258	2.807	4.307	0.3139	3.336	16	0.9771	9.091	20

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Dietrich	st2	Assay04	A/A	NPhenol	28.3	50			3.257	0.001192			20	0.4621	10.38	24
Dietrich	st2	Assay04	A/A	DDT												24
Dietrich	st2	Assay04	A/A	DES	9.504	57.81	-7.958	-1.785	4.471	5.825	0.399	1.413	16	0.7649	13.98	20
Dietrich	st2	Assay04	A/A	Gen	6.155	105.3	-6.401	-1.342	7.751	4.718	0.142	0.413	16	0.9129	14.58	20
Dietrich	st2	Assay04	A/A	EE2												20
Dietrich	st2	Assay05	A	E2	-0.4723	105.4	-8.688	-0.7922	1.514	2.37	0.02875	0.06082	23	0.9924	3.77	27
Dietrich	st2	Assay05	A	NE	2.747	101.8	-6.319	-1.111	1.663	1.707	0.02258	0.08149	20	0.9939	3.329	24
Dietrich	st2	Assay05	A/A	DBP												21
Dietrich	st2	Assay05	A/A	ButylPar												24
Dietrich	st2	Assay05	A/A	Cort												24
Dietrich	st2	Assay05	A/A	Equol												24
Dietrich	st2	Assay05	A/A	Hexestrol	1.425	52.19	-8.309	-1.955	4.749	6.769	0.6492	1.788	20	0.7062	16.35	24
Dietrich	st2	Assay05	A/A	NPhenol												24
Dietrich	st2	Assay05	A/A	DDT												24
Dietrich	st2	Assay05	A/A	DES												24
Dietrich	st2	Assay05	A/A	Gen	4.334	104	-5.987	-1.024	1.827	1.542	0.04093	0.1202	20	0.9916	4.428	24
Dietrich	st2	Assay05	A/A	EE2												24
Dietrich	st2	Assay06	A	E2	0.05799	97.81	-8.886	-0.9255	1.709	2.771	0.03549	0.0911	23	0.9867	4.749	27
Dietrich	st2	Assay06	A	NE	-1.545	86.61	-6.147	-1.25	3.986	2.992	0.05267	0.2291	20	0.9671	7.141	24
Dietrich	st2	Assay06	A/A	DBP												12
Dietrich	st2	Assay06	A/A	ButylPar												24
Dietrich	st2	Assay06	A/A	Cort												24
Dietrich	st2	Assay06	A/A	Equol	4.763	65.38	-6.457	-1.411	4.261	1.492	0.1533	0.5222	20	0.9437	5.676	24
Dietrich	st2	Assay06	A/A	Hexestrol	-1.251	67.44	-8.179	-1.021	1.536	2.531	0.08924	0.1722	20	0.9753	4.996	24
Dietrich	st2	Assay06	A/A	NPhenol	-3.1E+07	59.57	-5.533	-1.046	3.76E+12	1.988	0.3686	0.7649	20	0.698	8.148	24
Dietrich	st2	Assay06	A/A	DDT	50	323.6			0.007121	51176			20	0.2264	12.02	24
Dietrich	st2	Assay06	A/A	DES	4.844	71.31	-8.532	-1.291	4.747	3.128	0.1906	0.5061	20	0.8986	10.52	24
Dietrich	st2	Assay06	A/A	Gen	4.766	77.66	-7.066	-2.936	2.802	2.331	0.4204	18.71	20	0.9606	7.485	24
Dietrich	st2	Assay06	A/A	EE2	0.9513	98.18	-8.569	-0.9118	3.068	1.976	0.06477	0.1251	20	0.9818	6.1	24
Dietrich	st2	Assay15	U	E2	0.003364	121.2	-8.66	-0.7385	1.515	2.661	0.02707	0.04991	23	0.9939	3.717	27
Dietrich	st2	Assay15	A	NE	6.738	119.1	-6.042	-0.9707	2.525	2.234	0.02948	0.08236	20	0.9921	4.133	24
Dietrich	st2	Assay15	U/A	DBP												12
Dietrich	st2	Assay15	U/A	ButylPar												24
Dietrich	st2	Assay15	U/A	Cort												24
Dietrich	st2	Assay15	U/A	Equol	5.905	102.5	-6.754	-0.7727	2.863	2.041	0.06537	0.1036	20	0.9842	5.594	24
Dietrich	st2	Assay15	U/A	Hexestrol	1.803	89.02	-8.429	-0.6578	6.588	3.152	0.1246	0.1622	20	0.9449	8.812	24
Dietrich	st2	Assay15	U/A	NPhenol	11.51	110.7	-6.155	-0.8273	3.659	3.513	0.1022	0.1603	20	0.9649	8.888	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Dietrich	st2	Assay15	U/A	DDT	-1.47E+12	122.2	-5.167	-0.149	4.59E+12	17.16	0.3491	0.07913	20	0.7221	15.45	24
Dietrich	st2	Assay15	U/A	DES	10.48		-12.13	-0.3169	4.218		0.4626	0.6987	20	0.8417	11.58	24
Dietrich	st2	Assay15	U/A	Gen	3.59	111.6	-7.265	-0.6883	3.352	3.257	0.08292	0.1038	20	0.9779	7.356	24
Dietrich	st2	Assay15	U/A	EE2	-1.417		-12.05	-0.1793	13.26		1.069	0.2362	20	0.6467	19.2	24
Dietrich	st2	Assay16	A/A	E2												
Dietrich	st2	Assay16	A	E2	0.6574	108.7	-8.75	-0.8289	1.273	2.113	0.02431	0.0537	23	0.9943	3.343	27
Dietrich	st2	Assay16	A	NE	5.601	107.9	-6.118	-0.8866	3.067	2.613	0.03522	0.09393	20	0.9881	4.49	24
Dietrich	st2	Assay16	A/A	ButylPar	43.28	112.3	-4.081	-0.7796	7.577	1.808	0.3052	0.1995	20	0.9426	6.178	24
Dietrich	st2	Assay16	A/A	Cort												24
Dietrich	st2	Assay16	A/A	NPhenol	10.73	106.7	-6.121	-0.6951	3.864	3.579	0.1071	0.1339	20	0.9648	8.317	24
Dietrich	st2	Assay16	A/A	DDT	-1.71E+12	114.4	-5.373	-0.1949	2.74E+12	8.637	0.2682	0.08533	20	0.7766	13.96	24
Dietrich	st2	Assay16	A/A	DES	14.57		-12.06	-0.3541	4.675		0.9168	0.3147	20	0.8066	13.9	24
Dietrich	st2	Assay16	A/A	EE2	1.045		-11.83	-0.185	13.55		2.022	0.6579	20	0.6404	20.51	24
Dietrich	st3	Assay07	U	E2	-4.885	101.8	-8.857	-0.5597	5.046	8.856	0.08584	0.1294	23	0.9482	8.958	27
Dietrich	st3	Assay07	U	NE	-4.078	109.2	-6.209	-0.6062	6.134	4.631	0.04482	0.09076	20	0.9833	5.003	24
Dietrich	st3	Assay07	U/U	DBP												12
Dietrich	st3	Assay07	U/U	ButylPar	-317.8	110.1	-4.039	-0.284	1300	7.058	0.1716	0.1799	20	0.9163	11.26	24
Dietrich	st3	Assay07	U/U	Equol	6.989	96	-6.451	-1.069	3.425	3.087	0.08045	0.1916	15	0.9724	7.267	19
Dietrich	st3	Assay07	U/U	DBP-TC												24
Dietrich	st3	Assay07	U/U	Zear	17.56	95.49	-8.703	-0.7091	6.052	38.27	0.3324	0.6395	20	0.6165	20.26	24
Dietrich	st3	Assay07	U/U	BPA	-2.403	106.2	-5.099	-0.5124	11.99	4.424	0.1478	0.1407	20	0.9381	10.65	24
Dietrich	st3	Assay07	U/U	ELactone	21.21	97.72	-4.187	-1.37	5.552	2.212	0.09824	0.356	20	0.9331	8.387	24
Dietrich	st3	Assay07	U/U	Progesterone												24
Dietrich	st3	Assay07	U/U	OTES												24
Dietrich	st3	Assay07	U/U	HPTE	4.492	95.08	-7.102	-1.293	3.482	3.136	0.08171	0.4418	20	0.959	9.277	24
Dietrich	st3	Assay08	A	E2	0.6161	101	-8.696	-1.112	1.608	2.205	0.02999	0.1029	23	0.9893	4.62	27
Dietrich	st3	Assay08	U	NE	-11.88	122.4	-6.372	-0.4621	10.49	10.36	0.05292	0.1039	19	0.9791	5.686	23
Dietrich	st3	Assay08	A/U	DBP												12
Dietrich	st3	Assay08	A/U	ButylPar	-2.99E+11	141.9	-4.362	-0.08999	2.72E+12	25.19	0.1862	0.03294	20	0.9259	9.457	24
Dietrich	st3	Assay08	A/U	Equol	10.27	111.2	-6.722	-1.181	1.396	1.738	0.02465	0.08304	19	0.9943	3.438	23
Dietrich	st3	Assay08	A/U	DBP-TC												24
Dietrich	st3	Assay08	A/U	Zear	-0.07443	103.1	-8.845	-0.4914	3.049	4.041	0.07914	0.06845	20	0.9825	5.638	24
Dietrich	st3	Assay08	A/U	BPA	0.9436	135.7	-6.358	-0.265	5.589	10.49	0.07576	0.04314	20	0.99	4.039	24
Dietrich	st3	Assay08	A/U	ELactone	20.15	100.1	-4.862	-0.6985	5.491	2.512	0.124	0.1691	19	0.9568	7.288	23
Dietrich	st3	Assay08	A/U	Progesterone												24
Dietrich	st3	Assay08	A/U	OTES												24
Dietrich	st3	Assay08	A/U	HPTE	3.877	95.77	-7.095	-1.147	1.642	1.445	0.03906	0.1519	20	0.9913	4.209	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Dietrich	st3	Assay09	A	E2	0.4314	83.34	-8.847	-1.084	1.153	1.575	0.02804	0.08648	23	0.9921	3.277	27
Dietrich	st3	Assay09	A	NE	1.25	92.51	-6.365	-0.8539	3.387	3.006	0.04213	0.1123	20	0.9819	4.895	24
Dietrich	st3	Assay09	A/A	DBP												12
Dietrich	st3	Assay09	A/A	ButylPar	-2.41E+12	106.9	-4.391	-0.1655	2.43E+12	8.056	0.1446	0.03775	20	0.9269	9.064	24
Dietrich	st3	Assay09	A/A	Equol	6.693	103.3	-6.492	-0.9502	1.805	1.925	0.02918	0.07955	20	0.9915	3.783	24
Dietrich	st3	Assay09	A/A	DBP-TC												24
Dietrich	st3	Assay09	A/A	Zear	-3.601	105.6	-8.615	-0.4604	3.527	3.552	0.06916	0.05737	19	0.9871	4.982	23
Dietrich	st3	Assay09	A/A	BPA	-9.718	109.7	-5.916	-0.2815	12.22	7.546	0.1091	0.06702	20	0.9757	5.879	24
Dietrich	st3	Assay09	A/A	ELactone	25.99	89.55	-4.703	-0.6416	3.174	1.066	0.07047	0.08275	19	0.9847	3.045	23
Dietrich	st3	Assay09	A/A	Progesterone												24
Dietrich	st3	Assay09	A/A	OTES												24
Dietrich	st3	Assay09	A/A	HPTE	-0.7555	95	-7.053	-0.7821	2.162	1.669	0.05092	0.08478	20	0.9898	4.463	24
Dietrich	st3	Assay10_1	A/A	DBP												12
Dietrich	st3	Assay10_1	A/A	Cort												24
Dietrich	st3	Assay10_1	A/A	Hexestrol	0.7313	69.88	-8.122	-0.9325	3.608	6.141	0.2059	0.3539	20	0.8806	11.48	24
Dietrich	st3	Assay10_1	A/A	NPhenol	-69.27				492.3				20	0.8183	6.092	24
Dietrich	st3	Assay10_1	A/A	DES												24
Dietrich	st3	Assay10_1	A/A	Gen	-15.4			-0.1994	33.94			0.07678	20	0.8572	6.175	24
Dietrich	st3	Assay10_1	A/A	E2-TC												23
Dietrich	st3	Assay10_1	A/A	NE-TC	-1.58E+11			-0.08712	1.29E+12			0.05788	20	0.7007	7.27	24
Dietrich	st3	Assay10_1	A/A	DHT	12.54	50	-9.128	-1.182	4.733	0.01593	2.905	0.7518	20	0.7602	8.201	24
Dietrich	st3	Assay10_1	A/A	Heptylphenol	-9.05E+10	92.48	-3.408	-0.7818	1.21E+13	1.714	0.05711	0.1158	20	0.9628	6.213	24
Dietrich	st3	Assay10_1	A/A	Atr												24
Dietrich	st3	Assay10_1	A/A	BaA_Ethol												23
Dietrich	st3	Assay10_1	A/A	Nethdrone												24
Dietrich	st3	Assay10_2	A/A	DDT												23
Dietrich	st3	Assay10_2	A/A	Tamox												24
Dietrich	st3	Assay10_2	A/A	Kepone												24
Dietrich	st3	Assay10_2	A/A	EE2												24
Dietrich	st3	Assay10_2	A/A	Dex												24
Dietrich	st3	Assay10_Part 1	A	E2	-0.4218	105.9	-8.78	-0.8278	1.543	2.548	0.02968	0.06595	23	0.9914	4.04	27
Dietrich	st3	Assay10_Part 1	A	NE	4.139	69.75	-6.633	-1.138	3.042	3.004	0.07506	0.2287	20	0.9565	6.063	24
Dietrich	st3	Assay11	A	E2	-0.588	104.7	-8.798	-0.7895	1.709	2.884	0.03328	0.06981	23	0.9895	4.361	27
Dietrich	st3	Assay11	A	NE	5.471	87.4	-6.383	-1.141	4.246	4.215	0.06891	0.2572	20	0.9458	8.502	24
Dietrich	st3	Assay11	A/A	DBP												12
Dietrich	st3	Assay11	A/A	Cort												24
Dietrich	st3	Assay11	A/A	Hexestrol	0.5482	79.07	-8.054	-0.8091	4.071	7.798	0.194	0.3071	20	0.8818	12.53	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Dietrich	st3	Assay11	A/A	BaA_Ethol												23
Dietrich	st3	Assay12_1	A/A	DBP												12
Dietrich	st3	Assay12_1	A/A	Cort												24
Dietrich	st3	Assay12_1	A/A	Hexestrol	1.986	75.51	-7.996	-0.817	1.359	2.87	0.07154	0.1088	18	0.9821	4.135	22
Dietrich	st3	Assay12_1	A/A	NPhenol	9.305	68.16	-6.181	-0.7738	2.179	1.45	0.0923	0.1229	20	0.977	4.085	24
Dietrich	st3	Assay12_1	A/A	DES	2.118	84.09	-8.309	-0.9681	6.01	3.392	0.135	0.3211	19	0.9222	10.75	23
Dietrich	st3	Assay12_1	A/A	Gen	1.187	71.4	-7.286	-0.8596	1.309	0.9694	0.05006	0.07988	20	0.9929	2.77	24
Dietrich	st3	Assay12_1	A/A	E2-TC	2.521	73.74	-8.69	-1.175	1.195	1.761	0.06105	0.1367	20	0.9869	3.926	24
Dietrich	st3	Assay12_1	A/A	NE-TC	2.916	77.94	-6.36	-0.8664	2.892	1.429	0.06933	0.1334	20	0.9808	4.559	24
Dietrich	st3	Assay12_1	A/A	DHT	9.632	85.91	-5.803	-0.7684	2.083	1.324	0.05406	0.08813	20	0.9886	3.697	24
Dietrich	st3	Assay12_1	A/A	Heptylphenol	-3.54E+08	106.5	-3.86	-0.2702	8.15E+12	4.28	0.1612	0.07821	20	0.9455	8.193	24
Dietrich	st3	Assay12_1	A/A	Atr												24
Dietrich	st3	Assay12_1	A/A	BaA_Ethol												24
Dietrich	st3	Assay12_1	A/A	Nethdrone	3.948	69.75	-6.383	-0.9497	2.409	1.247	0.07901	0.1556	20	0.9795	4.153	24
Dietrich	st3	Assay12_2	A/A	DDT	13.97	55.74	-6.474	-0.5288	62.19	6.317	1.345	0.9887	20	0.3069	18.26	24
Dietrich	st3	Assay12_2	A/A	Tamox	5.304	67.93	-7.475	-1.674	1.356	1.337	0.1035	0.3831	20	0.9848	3.96	24
Dietrich	st3	Assay12_2	A/A	Kepone	12.53	64.89			171	3.471			20	0.6614	13.44	24
Dietrich	st3	Assay12_2	A/A	EE2	2.743	50			4.787	0.000854			19	0.6567	15.52	23
Dietrich	st3	Assay12_2	A/A	Dex												24
Dietrich	st3	Assay12_Part 1	A	E2	-3.215	91.98	-8.918	-0.5951	3.629	6.83	0.07468	0.1178	21	0.964	6.683	25
Dietrich	st3	Assay12_Part 1	A	NE	1.78	87.86	-6.325	-0.9209	3.47	2.871	0.04567	0.1318	20	0.9785	5.176	24
Dietrich	st3	Assay13	A	E2	-0.3452	93.28	-8.774	-0.8792	1.923	3.23	0.04195	0.1056	21	0.9836	5.003	25
Dietrich	st3	Assay13	A	NE	0.988	98.2	-6.287	-0.8936	2.316	2.05	0.02748	0.07704	20	0.992	3.504	24
Dietrich	st3	Assay13	A/A	DBP												12
Dietrich	st3	Assay13	A/A	Cort												24
Dietrich	st3	Assay13	A/A	Hexestrol	1.596	76.32	-7.884	-0.9262	1.382	2.71	0.06681	0.1214	18	0.982	4.35	22
Dietrich	st3	Assay13	A/A	NPhenol	9.334	69.83	-6.025	-0.9176	1.498	1.011	0.05805	0.1058	20	0.9882	3.073	24
Dietrich	st3	Assay13	A/A	DES	2.084	86.72	-8.318	-0.9852	5.523	3.24	0.1222	0.2936	19	0.9338	10.26	23
Dietrich	st3	Assay13	A/A	Gen	0.279	73.07	-7.316	-0.8025	1.43	1.069	0.05252	0.07531	20	0.9923	2.952	24
Dietrich	st3	Assay13	A/A	E2-TC	1.912	73.15	-8.725	-1.214	0.8469	1.248	0.04294	0.09905	20	0.9933	2.803	24
Dietrich	st3	Assay13	A/A	NE-TC	1.19	79.91	-6.354	-0.7684	2.625	1.184	0.05536	0.08969	20	0.9881	3.65	24
Dietrich	st3	Assay13	A/A	DHT	11.42	85.06	-5.792	-0.8344	1.77	1.162	0.04856	0.08983	20	0.9902	3.363	24
Dietrich	st3	Assay13	A/A	Heptylphenol	-8.08E+11	106.8	-3.718	-0.3316	1.54E+12	1.942	0.04853	0.03126	20	0.9774	5.307	24
Dietrich	st3	Assay13	A/A	Atr												24
Dietrich	st3	Assay13	A/A	BaA_Ethol												24
Dietrich	st3	Assay13	A/A	Nethdrone	3.128	71.71	-6.383	-0.927	2.482	1.3	0.07648	0.1472	20	0.9799	4.286	24
Dietrich	st3	Assay13_2	A/A	Tamox	4.493	71.81	-7.479	-1.562	1.387	1.369	0.08079	0.2771	20	0.9863	4.03	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Dietrich	st3	Assay14_1	A/A	DBP												12
Dietrich	st3	Assay14_1	A/A	NPhenol	-6.77	98.89	-5.851	-0.3181	12.22	5.988	0.1246	0.08132	20	0.9655	6.563	24
Dietrich	st3	Assay14_1	A/A	DDT	23.39	110.9	-5.182	-0.7274	12.02	3.698	0.2095	0.2685	20	0.8918	11.85	24
Dietrich	st3	Assay14_1	A/A	DES	-0.7841	87.09	-8.423	-0.7523	7.628	3.835	0.1515	0.2351	20	0.9153	11.48	24
Dietrich	st3	Assay14_1	A/A	Gen	1.877	103.1	-6.834	-0.9379	3.706	2.778	0.08007	0.1859	20	0.9717	8.162	24
Dietrich	st3	Assay14_1	A/A	E2-TC	0.000503	90.8	-9.438	-0.5339	2.427	9.534	0.1141	0.1163	20	0.9621	6.482	24
Dietrich	st3	Assay14_1	A/A	NE-TC	10.17	107.7			4.909	3.229			20	0.9437	11.33	24
Dietrich	st3	Assay14_1	A/A	Tamox	5.085	94.65	-7.719	-0.8969	1.81	1.955	0.05493	0.1072	20	0.9874	4.824	24
Dietrich	st3	Assay14_1	A/A	DHT	14.38	98.96	-5.74	-1.219	4.078	2.776	0.1035	0.3878	19	0.9554	8.808	23
Dietrich	st3	Assay14_1	A/A	Kepone	11.81	105.4	-5.689	-1.3	3.908	1.713	0.07539	0.3013	20	0.9775	6.279	24
Dietrich	st3	Assay14_1	A/A	Atr												24
Dietrich	st3	Assay14_1	A/A	EE2	3.038	65.8	-11.06	-0.4888	0.8629	9.586	0.1116	0.08462	20	0.9821	2.361	24
Dietrich	st3	Assay14_1	A/A	Nethdrone	8.378	89.82	-6.017	-1.111	3.827	2.056	0.07433	0.2871	20	0.9638	7.043	24
Dietrich	st3	Assay14_2	A/A	Dex												23
Dietrich	st3	Assay14_Part 1	A	E2	0.1353	80.31	-8.671	-1.154	1.616	1.913	0.03945	0.1337	23	0.9848	4.516	27
Dietrich	st3	Assay14_Part 1	A	NE	4.512	84.02	-6.283	-1.063	3.365	2.789	0.05062	0.1727	20	0.9721	5.71	24
Dietrich	st3	Assay15	A	E2	0.003364	121.2	-8.66	-0.7385	1.515	2.661	0.02707	0.04991	23	0.9939	3.717	27
Dietrich	st3	Assay15	A	NE	6.738	119.1	-6.042	-0.9707	2.525	2.234	0.02948	0.08236	20	0.9921	4.133	24
Dietrich	st3	Assay15	A/A	DBP												12
Dietrich	st3	Assay15 (III)	A/A	DDT	28.88	124.5	-5.249	-0.9939	7.334	2.978	0.1743	0.3008	20	0.9389	10.36	24
Dietrich	st3	Assay15 (III)	A/A	Kepone	16.87	111.7	-6.003	-2.203	3.087	2.902	0.04203	0.4539	20	0.9694	8.256	24
Dietrich	st3	Assay15 (III)	A/A	EE2	6.678	121.7	-10.82	-0.6196	2.763	4.168	0.07946	0.0853	20	0.9821	6.731	24
Dietrich	st3	Assay15 (III)	A/A	Dex												24
Dietrich	st3	Assay16	A/A	E2												
Dietrich	st3	Assay16	A	E2	0.6574	108.7	-8.75	-0.8289	1.273	2.113	0.02431	0.0537	23	0.9943	3.343	27
Dietrich	st3	Assay16	A	NE	5.601	107.9	-6.118	-0.8866	3.067	2.613	0.03522	0.09393	20	0.9881	4.49	24
Dietrich	st3	Assay16 (III)	A/A	DDT	25.54	116.5	-5.274	-0.8417	6.545	2.439	0.136	0.2007	20	0.9551	8.109	24
Dietrich	st3	Assay16 (III)	A/A	Kepone	13.21	108.8	-5.986	-1.636	2.763	2.412	0.03892	0.2408	20	0.9794	6.508	24
Dietrich	st3	Assay16 (III)	A/A	EE2	7.845	111.1	-10.82	-0.696	2.147	2.906	0.06464	0.08482	20	0.9863	5.462	24
Freyberger	st2	A	A	E2	0.2966	97.65	-8.888	-1.135	0.7445	1.125	0.01473	0.05156	23	0.9973	2.212	27
Freyberger	st2	A	A	NE	2.751	101.1	-6.352	-0.9461	1.288	1.315	0.01686	0.04974	20	0.9969	2.249	24
Freyberger	st2	A	A/A	DBP												21
Freyberger	st2	A	A/A	ButylPar	8.669	103.3	-4.679	-0.6144	5.43	1.737	0.07529	0.08941	20	0.9816	4.993	24
Freyberger	st2	A	A/A	Cort												21
Freyberger	st2	A	A/A	Equol	1.526	90.75	-7.042	-0.9964	0.8823	1.067	0.02676	0.07365	20	0.9965	2.532	24
Freyberger	st2	A	A/A	Hexestrol	-0.416	94.7	-7.459	-1.291	0.4959	0.7215	0.01684	0.04796	20	0.9987	1.653	24
Freyberger	st2	A	A/A	NPhenol	8.669	103.3	-4.679	-0.6144	5.43	1.737	0.07529	0.08941	20	0.9816	4.993	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Freyberger	st2	A	A/A	DDT	-7.88E+12	126.7	-6.1	-0.06115	1.11E+13	73.09	0.8861	0.0565	17	0.4658	23.2	21
Freyberger	st2	A	A/A	DES	3.154	98.6	-8.101	-1.318	0.5671	1.213	0.01746	0.1089	20	0.9977	2.046	24
Freyberger	st2	A	A/A	Gen	-0.8471	93.86	-6.376	-1.397	1.45	1.143	0.03426	0.1188	17	0.995	3.323	21
Freyberger	st2	A	A/A	EE2	0.9505	96.42	-8.713	-1.151	0.8135	2.305	0.02975	0.09021	20	0.9935	3.033	24
Freyberger	st2	B	A	E2	0.5558	96.22	-8.89	-1.129	0.6556	0.9881	0.01323	0.04581	23	0.9978	1.943	27
Freyberger	st2	B	A	NE	3.573	97.67	-6.398	-0.9451	1.394	1.456	0.01922	0.05686	20	0.9959	2.464	24
Freyberger	st2	B	A/A	DBP												21
Freyberger	st2	B	A/A	ButylPar	-14.11	93.12	-4.586	-0.5142	9.63	1.41	0.05801	0.06943	20	0.987	3.889	24
Freyberger	st2	B	A/A	Cort												21
Freyberger	st2	B	A/A	Equol	3.995	96.75	-7.058	-0.9078	1.935	2.526	0.05937	0.1333	20	0.9842	5.544	24
Freyberger	st2	B	A/A	Hexestrol	0.7895	83.47	-7.448	-1.177	3.075	4.425	0.1274	0.3386	20	0.9409	9.994	24
Freyberger	st2	B	A/A	NPhenol	8.494	87.78	-6.06	-0.9959	1.224	1.002	0.03401	0.09469	20	0.9943	2.887	24
Freyberger	st2	B	A/A	DDT	20.62	95.94	-6.024	-1.356	1.934	1.432	0.04296	0.2474	17	0.9869	4.19	21
Freyberger	st2	B	A/A	DES	2.131	91.73	-8.109	-1.49	0.5368	1.078	0.01788	0.1603	20	0.9977	1.94	24
Freyberger	st2	B	A/A	Gen	2.974	78.26			6.921	5.644			17	0.8422	16.94	21
Freyberger	st2	B	A/A	EE2	2.209	90.49	-8.59	-1.263	1.299	3.297	0.05424	0.1543	20	0.9826	4.879	24
Freyberger	st2	C	U	E2	1.061	92.12	-10.12	-0.9903	0.4877	2.428	0.02022	0.0611	23	0.9967	1.657	27
Freyberger	st2	C	U	NE	2.843	83.13	-6.506	-0.9498	1.476	1.438	0.02389	0.06851	20	0.9942	2.515	24
Freyberger	st2	C	U/U	DBP												21
Freyberger	st2	C	U/U	ButylPar	5.579	82.39	-5.126	-0.604	6.223	2.04	0.09956	0.1247	20	0.9635	5.769	24
Freyberger	st2	C	U/U	Cort												21
Freyberger	st2	C	U/U	Equol	9.076	86.51	-7.231	-1.824	1.599	2.246	0.08561	0.642	20	0.9808	5.445	24
Freyberger	st2	C	U/U	Hexestrol	2.068	66.73			2.81	3.956			20	0.9206	9.712	24
Freyberger	st2	C	U/U	NPhenol	10.66	84.72	-6.209	-0.7338	2.791	2.322	0.08963	0.1311	20	0.9712	5.83	24
Freyberger	st2	C	U/U	DDT	15.87	84.03	-6.009	-1.544	2.826	1.81	0.0527	0.6852	17	0.9719	5.565	21
Freyberger	st2	C	U/U	DES	2.434	84.63	-8.225	-1.157	1.339	2.912	0.05809	0.2173	20	0.9833	4.719	24
Freyberger	st2	C	U/U	Gen	1.282	80.21	-6.603	-1.057	3.326	2.522	0.09322	0.2032	17	0.9673	6.935	21
Freyberger	st2	C	U/U	EE2	4.38	76.46	-8.875	-1.281	0.8435	2.219	0.0395	0.1397	20	0.988	3.182	24
Freyberger	st2	D	A	E2	0.136	106.4	-9.014	-0.9308	0.6625	1.226	0.01314	0.03372	23	0.998	1.917	27
Freyberger	st2	D	A	NE	1.54	108.2	-6.15	-0.8895	1.466	1.237	0.01577	0.04306	20	0.9975	2.14	24
Freyberger	st2	D	A/A	DBP												21
Freyberger	st2	D	A/A	ButylPar	11.56	97.77	-4.74	-0.7275	5.216	1.901	0.08574	0.1325	20	0.9718	5.918	24
Freyberger	st2	D	A/A	Cort												21
Freyberger	st2	D	A/A	Equol	0.59	98.76	-6.712	-1.001	0.656	0.6929	0.0178	0.04111	20	0.9986	1.801	24
Freyberger	st2	D	A/A	Hexestrol	-1.954	93.11	-7.794	-0.9972	1.029	1.707	0.03407	0.08034	20	0.9941	3.328	24
Freyberger	st2	D	A/A	NPhenol	1.813	87.3	-6.1	-0.8236	1.525	1.174	0.0406	0.07326	20	0.9935	3.222	24
Freyberger	st2	D	A/A	DDT	19.71	101.4	-5.73	-1.102	1.742	0.9514	0.0386	0.1228	17	0.9943	2.844	21

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Freyberger	st2	D	A/A	DES	1.922	95.84	-8.25	-1.224	0.5053	1.198	0.01901	0.07355	20	0.998	1.85	24
Freyberger	st2	D	A/A	Gen	-1.074	92.35	-6.002	-2.029	5.792	3.448	0.05918	2.928	17	0.9432	11.09	21
Freyberger	st2	D	A/A	EE2	-1.217	100.8	-8.885	-1.066	0.3723	1.378	0.01241	0.04619	20	0.9986	1.378	24
Freyberger	st2	E	DMSO(A)	E2	-0.5082	114.4	-8.993	-0.8638	0.7205	1.415	0.01362	0.03143	23	0.998	2.038	27
Freyberger	st2	E	DMSO(A)	NE	1.359	99.88	-6.371	-0.8943	1.183	1.18	0.01489	0.04141	20	0.9976	1.93	24
Freyberger	st2	E	DMSO(A)/DMSO(A)	DBP												21
Freyberger	st2	E	DMSO(A)/DMSO(A)	Cort												24
Freyberger	st2	E	DMSO(A)/DMSO(A)	DDT	12.88	101.9	-5.908	-0.8925	2.425	1.402	0.04639	0.1024	17	0.991	3.82	21
Freyberger	st2	E	DMSO(A)/DMSO(A)	Gen	0.05722	99.12	-6.129	-1.37	1.909	1.763	0.04239	0.2524	20	0.9889	5.219	24
Freyberger	st2	F	DMSO(A)	E2	0.1982	106.5	-9.082	-0.9095	0.7319	1.431	0.01478	0.03678	23	0.9975	2.125	27
Freyberger	st2	F	DMSO(A)	NE	3.15	100.4	-6.461	-0.9979	1.7	1.963	0.0244	0.077	20	0.9932	3.341	24
Freyberger	st2	F	DMSO(A)/DMSO(A)	DBP												21
Freyberger	st2	F	DMSO(A)/DMSO(A)	Cort												24
Freyberger	st2	F	DMSO(A)/DMSO(A)	DDT	12.7	93.34	-5.816	-0.9635	2.746	1.365	0.05068	0.1373	17	0.9878	3.988	21
Freyberger	st2	F	DMSO(A)/DMSO(A)	Gen	1.001	97.77	-6.114	-1.343	1.059	0.9633	0.02347	0.1387	20	0.9965	2.857	24
Freyberger	st2	G	DMSO(A)	E2	-0.2039	93.13	-9.108	-0.9475	1.001	1.801	0.02289	0.05889	23	0.9943	2.898	27
Freyberger	st2	G	DMSO(A)	NE	4.953	86.43	-6.454	-1.16	1.207	1.274	0.0205	0.07807	20	0.9949	2.534	24
Freyberger	st2	G	DMSO(A)/DMSO(A)	DBP												21
Freyberger	st2	G	DMSO(A)/DMSO(A)	Cort												24
Freyberger	st2	G	DMSO(A)/DMSO(A)	DDT	10.34	93.33	-5.96	-0.6441	3.241	1.505	0.05454	0.07516	17	0.9896	3.496	21
Freyberger	st2	G	DMSO(A)/DMSO(A)	Gen	0.3228	92.9	-6.213	-1.032	1.165	1.042	0.03024	0.08253	20	0.9957	2.94	24
Freyberger	st3	CODE A	A	E2	0.9044	105.8	-8.995	-0.9552	0.641	1.161	0.01276	0.03398	23	0.9981	1.866	27
Freyberger	st3	CODE A	A	NE	4.455	105.4	-6.123	-1.025	1.261	1.081	0.01512	0.04901	20	0.9975	2.122	24
Freyberger	st3	CODE A1	A	E2	0.9471	106.7	-9.035	-0.9387	0.5866	1.104	0.01174	0.03047	23	0.9984	1.712	27
Freyberger	st3	CODE A1	A	NE	-1.727	105.9	-6.271	-0.7076	4.599	3.894	0.04271	0.09548	20	0.9833	5.122	24
Freyberger	st3	CODE A2	A	E2	0.3281	103.4	-8.865	-0.9833	2.506	4.058	0.04881	0.137	23	0.9736	7.167	27
Freyberger	st3	CODE A2	U	NE	8.215	101	-6.119	-1.834	3.594	3.376	0.05011	0.3852	20	0.9605	9.008	24
Freyberger	st3	CODE AB	A	E2	0.3804	100.8	-8.996	-1.008	0.7198	1.239	0.01464	0.04224	23	0.9975	2.117	27
Freyberger	st3	CODE AB	A	NE	2.796	101.2	-6.348	-0.8713	3.08	3.064	0.03853	0.1037	20	0.9847	4.883	24
Freyberger	st3	CODE B	A	E2	0.574	97.8	-9.138	-0.974	0.4627	0.8697	0.0101	0.02742	23	0.9988	1.373	27
Freyberger	st3	CODE B	A	NE	3.318	100.6	-6.291	-0.9363	0.8956	0.8527	0.01136	0.03319	20	0.9986	1.485	24
Freyberger	st3	CODE B1	A	E2	0.145	107.1	-8.967	-0.9175	0.887	1.608	0.01739	0.04379	23	0.9966	2.534	27
Freyberger	st3	CODE B1	U	NE	5.836	93.03	-6.473	-3.426	2.408	2.636	0.03447	1.756	20	0.9732	7.317	24
Freyberger	st3	CODE B2	A	E2	0.3027	98.52	-9.023	-1.009	0.5192	0.8974	0.01085	0.03122	23	0.9986	1.529	27
Freyberger	st3	CODE B2	A	NE	0.9032	99.25	-6.315	-0.8261	4.239	3.805	0.04848	0.1249	20	0.9765	5.951	24
Freyberger	st3	Code A	A/A	DBP												21
Freyberger	st3	Code A	A/A	NE-TC	5.259	108.3	-6.133	-0.9583	0.7822	0.7241	0.01894	0.0419	20	0.9984	1.974	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Freyberger	st3	Code A	A/A	DBP-TC												24
Freyberger	st3	Code A	A/A	Zear	3.03	97.25	-7.571	-1.092	3.365	5.162	0.1127	0.2687	20	0.9416	10.99	24
Freyberger	st3	Code A	A/A	DHT	3.454	96.43	-6.232	-1.02	1.61	1.493	0.04244	0.1073	20	0.9916	4.149	24
Freyberger	st3	Code A	A/A	Heptylphenol	-3.66E+08	95.99	-3.555	-0.5286	1.73E+12	1.579	0.0414	0.04589	20	0.9812	4.453	24
Freyberger	st3	Code A	A/A	Progesterone												24
Freyberger	st3	Code A	A/A	Atr												24
Freyberger	st3	Code A	A/A	BaA_Ethol												24
Freyberger	st3	Code A1	A/A	DBP												21
Freyberger	st3	Code A1	A/A	NE-TC	7.713	97.44	-6.363	-1.011	1.985	1.945	0.05791	0.1255	20	0.9855	5.293	24
Freyberger	st3	Code A1	A/A	DBP-TC												24
Freyberger	st3	Code A1	A/A	Zear	7.135	63.79			2.136	2.992			20	0.9389	7.364	24
Freyberger	st3	Code A1	A/A	DHT	5.206	106.5	-6.287	-0.7529	1.148	1.108	0.03004	0.04308	20	0.9968	2.658	24
Freyberger	st3	Code A1	A/A	Heptylphenol	-7.82E+08	88.26	-3.292	-1.073	6.43E+12	3.799	0.1538	0.5952	20	0.7991	14.15	24
Freyberger	st3	Code A1	A/A	Progesterone												24
Freyberger	st3	Code A1	A/A	Atr												24
Freyberger	st3	Code A1	A/A	BaA_Ethol												24
Freyberger	st3	Code A2	A/U	DBP												21
Freyberger	st3	Code A2	A/U	NE-TC	-26.61	206.7	-7.357	-0.1332	80.39	471.2	0.3099	0.2493	20	0.8522	14.53	24
Freyberger	st3	Code A2	A/U	DBP-TC												24
Freyberger	st3	Code A2	A/U	Zear	13.68	106.1	-7.623	-1.611	3.491	5.097	0.1546	0.6552	20	0.9328	11.94	24
Freyberger	st3	Code A2	A/U	DHT	-1.577	117.1	-6.482	-0.3016	17.66	23.79	0.2599	0.1603	20	0.8746	14.74	24
Freyberger	st3	Code A2	A/U	Heptylphenol		106.4	-3.373	-0.5664		1.418	0.03248	0.05434	20	0.9778	4.928	24
Freyberger	st3	Code A2	A/U	Progesterone	50	113	-8.438	3.861								24
Freyberger	st3	Code A2	A/U	Atr												24
Freyberger	st3	Code A2	A/U	BaA_Ethol												24
Freyberger	st3	Code AB	A/A	DBP												21
Freyberger	st3	Code AB	A/A	E2-TC												24
Freyberger	st3	Code AB	A/A	NE-TC	7.393	88.29	-6.617	-0.9398	2.018	2.056	0.06695	0.1312	20	0.9814	5.347	24
Freyberger	st3	Code AB	A/A	Zear	18.83	99.01	-7.787	-1.716	6.166	9.57	0.3395	2.631	20	0.7571	21.38	24
Freyberger	st3	Code AB	A/A	DHT	6.325	95.24	-6.312	-0.9531	1.164	1.108	0.03342	0.07001	20	0.9951	2.986	24
Freyberger	st3	Code AB	A/A	Heptylphenol	-4.8E+07	89.87	-3.406	-0.7919	2.50E+12	3.215	0.0877	0.1995	20	0.9199	8.81	24
Freyberger	st3	Code AB	A/A	OTES												24
Freyberger	st3	Code AB	A/A	Atr												24
Freyberger	st3	Code AB	A/A	BaA_Ethol												24
Freyberger	st3	Code B	A/A	DBP												21
Freyberger	st3	Code B	A/A	E2-TC	5.13	92.79	-9.025	-1.469	2.091	8.24	0.06465	0.8461	20	0.942	7.977	24
Freyberger	st3	Code B	A/A	Tamox	4.593	97.8	-7.861	-1.292	0.9488	1.559	0.02851	0.1467	20	0.9944	3.228	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Freyberger	st3	Code B	A/A	BPA	5.673	90.43	-6.122	-0.9054	2.673	2.238	0.073	0.1601	20	0.9768	6.19	24
Freyberger	st3	Code B	A/A	Kepone	8.926	91.52	-5.266	-0.993	3.51	2.095	0.07975	0.1898	20	0.9684	6.779	24
Freyberger	st3	Code B	A/A	ELactone												24
Freyberger	st3	Code B	A/A	OTES												24
Freyberger	st3	Code B1	A/U	DBP	50	110.3	-6.988	3.331	0.1196	1316	74.99	116.5	17	-2.681	46.01	21
Freyberger	st3	Code B1	A/U	E2-TC	3.854	80.49	-9.134	-1.469	1.828	7.203	0.09399	0.8456	20	0.9421	6.973	24
Freyberger	st3	Code B1	A/U	Tamox	3.385	84.87	-7.976	-1.292	0.8296	1.363	0.027	0.1467	20	0.9944	2.822	24
Freyberger	st3	Code B1	A/U	BPA	4.33	78.43	-6.305	-0.9053	2.337	1.956	0.08065	0.1601	20	0.9768	5.411	24
Freyberger	st3	Code B1	A/U	Kepone	7.174	79.38	-5.436	-0.9929	3.069	1.831	0.08603	0.1898	20	0.9684	5.927	24
Freyberger	st3	Code B1	A/U	ELactone	43.47	83.33	-4.848	-1.223	2.454	1.644	0.1808	0.349	20	0.9233	5.469	24
Freyberger	st3	Code B1	A/U	OTES												24
Freyberger	st3	Code B2	A/A	DBP												21
Freyberger	st3	Code B2	A/A	E2-TC												24
Freyberger	st3	Code B2	A/A	Tamox	1.607	83.1	-8.064	-1.101	1.25	2.258	0.04759	0.1644	20	0.9871	4.194	24
Freyberger	st3	Code B2	A/A	BPA	5.684	101.2	-6	-0.9922	1.224	1.031	0.02889	0.07852	20	0.9959	2.936	24
Freyberger	st3	Code B2	A/A	Kepone	8.429	100.9	-5.234	-0.9932	1.912	1.168	0.04007	0.0909	20	0.9921	3.766	24
Freyberger	st3	Code B2	A/A	ELactone	26.43	102.8	-4.203	-0.8299	3.545	1.154	0.07291	0.1121	20	0.9836	3.914	24
Freyberger	st3	Code B2	A/A	OTES												24
JapanCERI	st1	20090113	A/A	DBP												21
JapanCERI	st1	20090113_01	A	E2	0.7478	94.01	-8.829	-1.148	0.7967	1.135	0.01621	0.05775	23	0.9968	2.34	27
JapanCERI	st1	20090113_01	A	NE	1.172	90.23	-6.589	-0.9332	1.475	1.689	0.02279	0.06563	20	0.9944	2.717	24
JapanCERI	st1	20090121	A/A	DBP												21
JapanCERI	st1	20090121_02	A	E2	0.008107	100.8	-8.761	-1.112	0.9541	1.358	0.01791	0.06126	23	0.9961	2.769	27
JapanCERI	st1	20090121_02	A	NE	2.28	99.31	-6.581	-0.9194	0.859	1.086	0.01261	0.03631	20	0.9982	1.648	24
JapanCERI	st1	20090128	A/A	DBP												21
JapanCERI	st1	20090128_03	A	E2	0.7555	97.34	-8.742	-1.163	0.6965	0.9505	0.01338	0.04918	23	0.9978	2.032	27
JapanCERI	st1	20090128_03	A	NE	0.9434	99.9	-6.505	-0.8514	1.268	1.44	0.01673	0.04416	20	0.997	2.121	24
JapanCERI	st2	20090422	A/A	DBP												21
JapanCERI	st2	20090422	A/A	ButylPar	-1.45	102.2	-4.709	-0.5136	11.97	2.95	0.116	0.1185	20	0.9585	7.65	24
JapanCERI	st2	20090422	A/A	Cort												21
JapanCERI	st2	20090422	A/A	Equol	3.59	106.1	-7.151	-0.9276	0.4972	0.7122	0.01457	0.03177	20	0.999	1.496	24
JapanCERI	st2	20090422	A/A	Hexestrol	1.971	105.2	-7.455	-0.9508	0.847	1.334	0.02634	0.05298	20	0.9969	2.67	24
JapanCERI	st2	20090422	A/A	NPhenol	5.831	107	-6.168	-0.8018	1.023	0.9437	0.02609	0.04172	20	0.9975	2.39	24
JapanCERI	st2	20090422	A/A	DDT	13.04	107.3	-6.08	-0.8526	0.9873	0.9168	0.02803	0.04756	20	0.9971	2.384	24
JapanCERI	st2	20090422	A/A	DES	1.201	101	-8.169	-1.116	0.3187	0.7491	0.01055	0.03814	20	0.9993	1.136	24
JapanCERI	st2	20090422	A/A	Gen	-0.3421	105	-6.855	-0.8359	1.096	1.02	0.0228	0.04477	17	0.9979	2.263	21
JapanCERI	st2	20090422	A/A	EE2	0.8448	101.2	-8.667	-1.086	0.3137	0.9278	0.01119	0.031	20	0.9991	1.16	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
JapanCERI	st2	20090422_01	A	E2	-0.07589	101.6	-8.718	-1.002	0.7139	1.031	0.0136	0.03978	23	0.998	1.994	27
JapanCERI	st2	20090422_01	A	NE	1.322	103.3	-6.612	-0.9155	0.9332	1.253	0.01345	0.03862	20	0.9979	1.841	24
JapanCERI	st2	20090427	A/A	DBP												21
JapanCERI	st2	20090427	A/A	ButylPar	-5.567	104.2	-4.815	-0.449	15.82	3.86	0.1367	0.1198	20	0.9491	8.724	24
JapanCERI	st2	20090427	A/A	Cort												21
JapanCERI	st2	20090427	A/A	Equol	2.724	105.6	-7.152	-1.042	0.5645	0.794	0.01588	0.04391	20	0.9987	1.754	24
JapanCERI	st2	20090427	A/A	Hexestrol	1.111	104.5	-7.397	-1.02	0.5062	0.7661	0.01542	0.03412	20	0.9989	1.615	24
JapanCERI	st2	20090427	A/A	NPhenol	5.6	106.9	-6.164	-0.85	1.268	1.17	0.03203	0.05655	20	0.996	3.046	24
JapanCERI	st2	20090427	A/A	DDT	11.85	106.7	-6.179	-0.7184	2.533	2.435	0.07322	0.09476	20	0.9831	5.687	24
JapanCERI	st2	20090427	A/A	DES	0.6353	107	-8.198	-0.9639	0.4136	1.078	0.01366	0.03514	20	0.9989	1.444	24
JapanCERI	st2	20090427	A/A	Gen	-0.2514	105.1	-6.811	-0.9071	0.8836	0.7951	0.01811	0.04066	17	0.9986	1.875	21
JapanCERI	st2	20090427	A/A	EE2	0.9762	104.2	-8.614	-1.071	0.4731	1.392	0.01665	0.04392	20	0.9981	1.745	24
JapanCERI	st2	20090427_02	A	E2	0.1016	106.1	-8.771	-1.065	0.684	1.022	0.01251	0.03979	23	0.9982	1.979	27
JapanCERI	st2	20090427_02	A	NE	3.592	104.9	-6.626	-0.9552	1.139	1.615	0.01732	0.05212	20	0.9965	2.403	24
JapanCERI	st2	20090430	A/A	DBP												21
JapanCERI	st2	20090430	A/A	ButylPar	-2.123	106.1	-4.784	-0.4673	8.513	2.253	0.08197	0.07266	20	0.9813	5.253	24
JapanCERI	st2	20090430	A/A	Cort												21
JapanCERI	st2	20090430	A/A	Equol	2.931	102.4	-7.048	-1.043	0.4828	0.6334	0.01322	0.04085	20	0.9991	1.452	24
JapanCERI	st2	20090430	A/A	Hexestrol	0.7509	99.18	-7.504	-1.002	1.668	2.575	0.0539	0.1153	20	0.9867	5.324	24
JapanCERI	st2	20090430	A/A	NPhenol	6.087	105.1	-6.107	-0.7527	1.24	1.096	0.03141	0.04636	20	0.9964	2.727	24
JapanCERI	st2	20090430	A/A	DDT	9.939	106.6	-6.071	-0.7989	2.029	1.829	0.05433	0.08579	20	0.9894	4.664	24
JapanCERI	st2	20090430	A/A	DES	0.8469	100.7	-8.227	-0.9445	0.5485	1.422	0.01953	0.04847	20	0.9979	1.898	24
JapanCERI	st2	20090430	A/A	Gen	-1.007	103.3	-6.881	-0.7974	1.565	1.462	0.03278	0.05953	17	0.9957	3.144	21
JapanCERI	st2	20090430	A/A	EE2	1.189	96.65	-8.548	-1.14	0.3947	1.056	0.01521	0.03976	20	0.9986	1.464	24
JapanCERI	st2	20090430_03	A	E2	-1.151	100.3	-8.826	-0.881	0.9971	1.595	0.01989	0.04803	23	0.996	2.687	27
JapanCERI	st2	20090430_03	A	NE	0.9278	98.71	-6.609	-0.9261	0.8088	1.033	0.01187	0.0345	20	0.9984	1.572	24
JapanCERI	st3	91021	A/A	DBP												21
JapanCERI	st3	91021	A/A	DBP-TC												24
JapanCERI	st3	91021	A/A	Zear	1.4	99.95	-7.938	-1.057	1.076	2.047	0.03283	0.1116	20	0.9933	3.608	24
JapanCERI	st3	91021	A/A	Tamox	3.222	103.3	-8.369	-1.092	1.304	3.455	0.04745	0.1257	20	0.9869	4.774	24
JapanCERI	st3	91021	A/A	DHT	3.191	104.2	-6.426	-0.8934	1.185	1.184	0.03146	0.05701	20	0.996	3.049	24
JapanCERI	st3	91021	A/A	BPA	4.852	103.8	-6.282	-1.062	4.127	4.004	0.1069	0.2578	20	0.9499	11.1	24
JapanCERI	st3	91021	A/A	Heptylphenol	-2.86E+08	100	-3.419	-0.6348	3.99E+12	0.6664	0.02033	0.03216	20	0.9944	2.473	24
JapanCERI	st3	91021	A/A	Kepone	8.432	100.3	-5.724	-1.213	1.507	1.081	0.03637	0.1269	20	0.994	3.479	24
JapanCERI	st3	91021	A/A	Progesterone												24
JapanCERI	st3	091021_01	A	E2	0.3775	97.93	-8.856	-1.256	0.9158	1.312	0.01735	0.07196	23	0.996	2.773	27
JapanCERI	st3	091021_01	A	NE	-0.6395	99.69	-6.754	-0.8521	1.265	1.847	0.01884	0.05034	20	0.9961	2.417	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
JapanCERI	st3	91026	U/A	DBP												21
JapanCERI	st3	91026	U/A	DBP-TC												24
JapanCERI	st3	91026	U/A	Zear	2.196	106.6	-5.904	-1.131	0.8901	0.7119	0.018	0.06889	20	0.9982	2.144	24
JapanCERI	st3	91026	U/A	Tamox	2.501	105.7	-6.269	-1.091	1.166	1.129	0.02865	0.07338	20	0.9961	3.153	24
JapanCERI	st3	91026	U/A	DHT	6.448	109.3	-6.41	-0.8891	1.111	1.132	0.0301	0.05291	20	0.9966	2.878	24
JapanCERI	st3	91026	U/A	BPA	7.133	91.03	-6.126	-2.036	9.953	9.587	0.4073	6.161	20	0.6863	28.9	24
JapanCERI	st3	91026	U/A	Heptylphenol	11.16	112.1			129.5	6.778			20	0.6588	26.25	24
JapanCERI	st3	91026	U/A	Kepone	13.21	106.7	-5.717	-1.483	2.228	1.625	0.06641	0.3299	20	0.9868	5.364	24
JapanCERI	st3	91026	U/A	Progesterone												24
JapanCERI	st3	091026_02	U	E2	0.6386	84.29	-8.725	-1.51	2.313	2.731	0.04831	0.2621	23	0.9693	6.992	27
JapanCERI	st3	091026_02	A	NE	0.01609	104.8	-6.829	-0.782	1.517	2.566	0.02217	0.05572	20	0.9947	2.791	24
JapanCERI	st3	91104	U/U	DBP												21
JapanCERI	st3	91104	U/U	E2-TC	5.677	114.8	-8.824	-1.43	2.044	6.543	0.06807	0.4947	20	0.9652	7.786	24
JapanCERI	st3	91104	U/U	Atr												24
JapanCERI	st3	91104	U/U	BaA_Ethol												24
JapanCERI	st3	091104_00	U	E2	1.031	82.02	-8.618	-1.629	6.869	7.446	0.1415	0.8875	23	0.779	20.56	27
JapanCERI	st3	091104_00	U	NE	-2.695	119.4	-6.888	-0.6654	3.624	7.932	0.04493	0.1039	20	0.9802	5.746	24
JapanCERI	st3	91105	A/A	DBP												21
JapanCERI	st3	91105	A/A	NE-TC	1.526	102.7	-6.65	-0.9178	1.678	1.783	0.04515	0.08949	20	0.9915	4.479	24
JapanCERI	st3	91105	A/A	Zear	2.518	92.92	-5.876	-1.326	12.48	9.148	0.2655	1.425	20	0.6921	29.63	24
JapanCERI	st3	91105	A/A	Tamox	-0.9003	111.9	-6.287	-0.9407	1.594	1.539	0.03682	0.0734	20	0.9943	4.108	24
JapanCERI	st3	91105	A/A	ELactone	12.57	108.4	-4.362	-0.5663	11.62	3.013	0.144	0.1483	20	0.945	8.42	24
JapanCERI	st3	91105	A/A	Progesterone												24
JapanCERI	st3	91105	A/A	OTES												24
JapanCERI	st3	091105_03	A	E2	-0.6172	101.1	-8.726	-1.157	0.4973	0.6813	0.009071	0.03309	23	0.999	1.449	27
JapanCERI	st3	091105_03	A	NE	-0.5059	103.3	-6.681	-0.851	2.982	4.188	0.04192	0.1119	20	0.9809	5.582	24
JapanCERI	st3	91109	A/A	DBP												21
JapanCERI	st3	91109	A/A	E2-TC	-2.63	106.3	-5.958	-1.058	4.224	3.404	0.08251	0.2695	20	0.9648	10.04	24
JapanCERI	st3	91109	A/A	NE-TC	3.652	109.8	-6.855	-0.8233	1.157	1.462	0.03196	0.05737	20	0.996	3.142	24
JapanCERI	st3	91109	A/A	Zear	1.896	102.6	-5.934	-1.058	1.548	1.233	0.0327	0.1062	20	0.9944	3.656	24
JapanCERI	st3	91109	A/A	ELactone	22.57	105.2	-4.503	-0.8047	2.187	0.858	0.04642	0.07149	20	0.9935	2.768	24
JapanCERI	st3	91109	A/A	Progesterone												24
JapanCERI	st3	91109	A/A	OTES												24
JapanCERI	st3	091109_04	A	E2	-0.341	100.2	-8.797	-1.077	0.9256	1.357	0.01769	0.05745	23	0.9963	2.676	27
JapanCERI	st3	091109_04	A	NE	-0.7862	102.9	-6.73	-0.8565	0.9984	1.47	0.01442	0.0389	20	0.9977	1.926	24
JapanCERI	st3	91110	DMSO(A)/DMSO(A)	DBP												21
JapanCERI	st3	91110	DMSO(A)/DMSO(A)	E2-TC	23.21	105.4			11.78	10.56			20	0.6174	32.94	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
JapanCERI	st3	91110	DMSO(A)/DMSO(A)	Atr												24
JapanCERI	st3	91110	DMSO(A)/DMSO(A)	BaA_DMSO	50	126	-8.75	3.199								24
JapanCERI	st3	091110_05	DMSO(A)	E2	-0.113	103.9	-8.839	-1.077	1.733	2.664	0.03243	0.1048	23	0.9875	5.074	27
JapanCERI	st3	091110_05	DMSO(A)	NE	0.08526	100.9	-6.755	-0.8589	1.97	2.944	0.02957	0.08002	20	0.9903	3.839	24
JapanCERI	st3	91111	A/A	DBP												21
JapanCERI	st3	91111	A/A	E2-TC	1.106	98.84	-6.138	-1.109	0.9222	0.8294	0.02156	0.07255	20	0.9975	2.38	24
JapanCERI	st3	91111	A/A	NE-TC	1.467	98.7	-6.871	-0.9901	1.291	1.474	0.0352	0.09199	20	0.994	3.623	24
JapanCERI	st3	91111	A/A	ELactone	24.81	101.8	-4.653	-0.9576	2.159	1.014	0.05477	0.1166	20	0.9899	3.374	24
JapanCERI	st3	91111	A/A	Progesterone												24
JapanCERI	st3	91111	A/A	OTES												24
JapanCERI	st3	091111_06	A	E2	-0.2817	97.87	-8.875	-1.124	1.385	2.08	0.02718	0.09362	23	0.991	4.093	27
JapanCERI	st3	091111_06	A	NE	-1.287	103.4	-6.652	-0.8718	1.305	1.77	0.01805	0.04925	20	0.9964	2.464	24
JapanCERI	st3	91112	DMSO(A)/DMSO(A)	DBP												21
JapanCERI	st3	91112	DMSO(A)/DMSO(A)	E2-TC	-2.563	106.9	-5.847	-0.9704	2.197	1.641	0.04317	0.1089	20	0.9913	4.869	24
JapanCERI	st3	91112	DMSO(A)/DMSO(A)	Atr												24
JapanCERI	st3	91112	DMSO(A)/DMSO(A)	BaA_DMSO												24
JapanCERI	st3	091112_07	DMSO(A)	E2	-1.332	103.1	-8.772	-0.9622	0.8658	1.315	0.01638	0.04493	23	0.9971	2.407	27
JapanCERI	st3	091112_07	DMSO(A)	NE	-1.66	102.4	-6.777	-0.8555	1.592	2.426	0.02335	0.06302	20	0.9939	3.118	24
JapanCERI	st3	91116	A/A	DBP												21
JapanCERI	st3	91116	A/A	DBP-TC												24
JapanCERI	st3	91116	A/A	Zear	1.722	109.3	-5.836	-0.9472	1.36	1.044	0.02826	0.06728	20	0.9965	3.036	24
JapanCERI	st3	91116	A/A	Tamox	2.037	110.5	-6.176	-0.9934	1.129	1.062	0.02603	0.06038	20	0.9969	2.914	24
JapanCERI	st3	91116	A/A	DHT	6.099	110.1	-6.324	-0.9624	2.003	1.985	0.05231	0.1023	20	0.989	5.284	24
JapanCERI	st3	91116	A/A	BPA	5.671	112.3	-6.115	-0.829	2.099	1.933	0.05136	0.08548	20	0.9902	4.978	24
JapanCERI	st3	91116	A/A	Heptylphenol	-1.77E+12	110.4	-3.325	-0.6159	9.82E+11	1.326	0.03361	0.06277	20	0.9803	4.839	24
JapanCERI	st3	91116	A/A	Kepone	10.81	107.9	-5.587	-1.208	3.006	2.109	0.07489	0.2146	20	0.9792	6.862	24
JapanCERI	st3	91116	A/A	OTES												24
JapanCERI	st3	091116_08	A	E2	1.528	98.81	-8.738	-1.251	1.427	1.913	0.02654	0.1099	23	0.9908	4.243	27
JapanCERI	st3	091116_08	A	NE	0.8289	104.1	-6.709	-0.819	1.273	1.881	0.01813	0.0468	20	0.9964	2.337	24
JapanCERI	st3	91117	DMSO(A)/DMSO(A)	DBP												21
JapanCERI	st3	91117	DMSO(A)/DMSO(A)	E2-TC	6.622	112.4	-5.741	-1.035	1.432	1.082	0.03154	0.08456	20	0.9959	3.26	24
JapanCERI	st3	91117	DMSO(A)/DMSO(A)	Atr												24
JapanCERI	st3	91117	DMSO(A)/DMSO(A)	BaA_DMSO												24
JapanCERI	st3	091117_09	DMSO(A)	E2	0.7646	102.5	-8.833	-1.142	0.6773	1.012	0.01269	0.04509	23	0.998	2.01	27
JapanCERI	st3	091117_09	DMSO(A)	NE	1.967	100.3	-6.831	-0.9224	1.611	2.65	0.02669	0.07883	20	0.9915	3.532	24
JapanCERI	st3	91118	DMSO(A)/DMSO(A)	DBP												21
JapanCERI	st3	91118	DMSO(A)/DMSO(A)	E2-TC	2.999	115.8	-5.692	-1.07	2.494	1.816	0.05112	0.1394	20	0.9893	5.623	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
JapanCERI	st3	91118	DMSO(A)/DMSO(A)	Atr												24
JapanCERI	st3	91118	DMSO(A)/DMSO(A)	BaA_DMSO												24
JapanCERI	st3	091118_10	DMSO(A)	E2	0.7677	102.2	-8.774	-1.034	1.086	1.619	0.0208	0.06343	23	0.995	3.102	27
JapanCERI	st3	091118_10	DMSO(A)	NE	1.664	102.6	-6.781	-0.9321	1.069	1.702	0.01703	0.05077	20	0.9965	2.333	24
JapanCERI	st3	91119	A/A	DBP												21
JapanCERI	st3	91119	A/A	BPA	5.776	105.9	-6.287	-1.016	1.219	1.188	0.03178	0.06991	20	0.9956	3.244	24
JapanCERI	st3	91119	A/A	Heptylphenol	-2.98E+08	107.7	-3.365	-0.6185	1.10E+14	1.13	0.2039	0.1846	20	0.9882	3.782	24
JapanCERI	st3	91119	A/A	OTES												24
JapanCERI	st3	091119_11	A	E2	-0.9325	105.5	-8.799	-0.8745	1.578	2.573	0.03015	0.07197	23	0.9907	4.258	27
JapanCERI	st3	091119_11	A	NE	0.3295	106.7	-6.689	-0.9262	1.55	2.3	0.02264	0.06633	20	0.994	3.251	24
Lovelace	st1	3-Dec-08	U	E2	4.669	169.6	-8.582	-0.7843	5.967	11.55	0.0988	0.1552	22	0.9466	15.11	26
Lovelace	st1	3-Dec-08	U	NE	8.104	131.7	-5.541	-0.7048	14.25	7.33	0.1023	0.1966	20	0.9393	11.17	24
Lovelace	st1	3-Dec-08	U/U	DBP												21
Lovelace	st1	9-Dec-08	U	E2	0.7443	178.3	-8.751	-0.935	8.675	17.37	0.1358	0.2729	23	0.8832	25.69	27
Lovelace	st1	9-Dec-08	U	NE	-8.326	137.5	-5.696	-0.7003	17.03	8.681	0.09461	0.1963	20	0.9392	13.14	24
Lovelace	st1	9-Dec-08	U/U	DBP												21
Lovelace	st1	13-Dec-08	A	E2	5.684	111.6	-8.86	-1.042	3.198	5.413	0.06251	0.1853	23	0.957	9.489	27
Lovelace	st1	13-Dec-08	U	NE	17.29	106.7	-5.88	-1.294	4.026	3.187	0.05831	0.2467	20	0.9643	7.639	24
Lovelace	st1	13-Dec-08	A/U	DBP												21
Lovelace	st1	16-Dec-08	U	E2	14.21	106.1	-9.152	-4.507	3.067	4.868	0.09378	2.46	23	0.937	11.84	27
Lovelace	st1	16-Dec-08	A	NE	8.313	122.6	-5.905	-1.008	5.444	4.321	0.06078	0.1754	20	0.9685	8.587	24
Lovelace	st1	16-Dec-08	U/A	DBP												21
Lovelace	st1	19-Dec-08	A	E2	-2.121	103.2	-8.528	-0.7235	6.917	9.396	0.1236	0.2376	23	0.8906	14.93	27
Lovelace	st1	19-Dec-08	A/	DBP												21
Lovelace	st1	27-Jan-09	U	E2	2.33	132.6	-8.844	-0.8257	5.713	11.59	0.1039	0.2101	23	0.911	15.87	27
Lovelace	st1	27-Jan-09	U	NE	-4.77	114.6	-6.461	-0.646	8.134	9.213	0.07465	0.1568	20	0.9519	9.345	24
Lovelace	st1	27-Jan-09	U/U	DBP												21
Lovelace	st12	6-Oct-09	A	E2	2.124	127.7	-8.523	-0.9847	2.529	3.688	0.04317	0.1117	23	0.9834	7.024	27
Lovelace	st12	6-Oct-09	A	NE	6.671	123.2	-6.018	-0.9517	2.22	1.964	0.02536	0.06775	20	0.9945	3.569	24
Lovelace	st12	06Oct09 EtOH	A/A	DBP												21
Lovelace	st12	06Oct09EtOH_Buff	A/A	E2-TC												24
Lovelace	st12	06Oct09EtOH_Buff	A/A	DBP-TC												24
Lovelace	st12	06Oct09EtOH_Buff	A/A	EE2	8.855		-11.86	-0.1994	3.105		2.328	0.2609	20	0.8936	5.211	24
Lovelace	st12	9-Jul-10	U	E2	-2.924	175.9	-8.444	-0.6323	5.125	10.85	0.07937	0.1001	23	0.9697	11.51	27
Lovelace	st12	9-Jul-10	U	NE	9.169	186.9	-5.929	-0.8806	3.123	3.629	0.03507	0.06444	20	0.994	5.482	24
Lovelace	st12	09July10 EtOH	A/A	DBP												21
Lovelace	st12	09July10 EtOH_Buffer	A	E2	-1.635	95.54	-9.109	-0.6408	2.798	5.819	0.062	0.1016	23	0.9693	6.341	27

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st12	09July10 EtOH_Buffer	A	NE	4.864	102.1	-6.453	-0.8813	1.73	2.005	0.02408	0.06523	20	0.9939	3.035	24
Lovelace	st12	09July10 EtOH_Buffer	U/U	DBP												21
Lovelace	st12	09July10EtOH_Buff	A/A	E2-TC	-0.2776	72.07	-9.351	-0.7638	1.024	1.233	0.05039	0.06341	20	0.9938	2.631	24
Lovelace	st12	09July10EtOH_Buff	A/A	DBP-TC	-1.33E+09	82.36	-4.526	-0.2533	2.01E+12	3.614	0.1319	0.06596	20	0.842	6.7	24
Lovelace	st12	09July10EtOH_Buff	A/A	Heptylphenol	4.661	87.79	-9.222	-1.059	1.58	2.141	0.05611	0.1628	20	0.9855	4.846	24
Lovelace	st12	09July10EtOH_Buff	A/A	Kepone	10.41	96.8	-8.935	-0.9095	1.036	1.309	0.03387	0.07601	20	0.9949	2.931	24
Lovelace	st12	09July10EtOH_Buff	A/A	Progesterone	-1.63E+12	97.52	-5.278	-0.4908	3.30E+12	3.203	0.1012	0.1569	20	0.8147	11.04	24
Lovelace	st12	09July10EtOH_Buff	A/A	Atr												24
Lovelace	st12	09July10EtOH_Buff	A/A	EE2	7.576	70.73	-8.814	-0.9653	2.654	2.649	0.1284	0.2244	20	0.9494	7.034	24
Lovelace	st12	09Oct09 EtOH	U	E2	-2.03	72.75	-9.138	-0.6768	5	7.216	0.157	0.2237	23	0.8898	10.35	27
Lovelace	st12	09Oct09 EtOH	A	NE	-1.417	113.2	-6.089	-0.8271	2.991	2.324	0.02783	0.07023	20	0.9927	3.825	24
Lovelace	st12	09Oct09 EtOH	U/A	DBP												21
Lovelace	st12	09Oct09EtOH_Buff	U/A	E2-TC	1.486	104.3	-8.726	-1.013	1.545	1.672	0.0405	0.09976	20	0.9926	4.291	24
Lovelace	st12	09Oct09EtOH_Buff	U/A	DBP-TC												24
Lovelace	st12	09Oct09EtOH_Buff	U/A	EE2	3.995	125.4	-8.265	-0.8396	4.817	4.852	0.1151	0.1788	20	0.9573	12.09	24
Lovelace	st12	14Oct09 EtOH	U	E2	-2.75	119.4	-8.678	-0.5851	2.82	5.277	0.04581	0.06915	23	0.9849	5.486	27
Lovelace	st12	14Oct09 EtOH	A	NE	-5.157	110	-6.068	-0.7725	6.64	4.458	0.05287	0.1293	19	0.9738	7.064	23
Lovelace	st12	14Oct09 EtOH	U/A	DBP												21
Lovelace	st12	14Oct09EtOH_Buff	U/A	E2-TC	-1.99E+11			-0.1402	3.08E+12			0.07609	20	0.6747	15.48	24
Lovelace	st12	14Oct09EtOH_Buff	U/A	DBP-TC	-2.85E+11	127.1	-4.419	-0.5459	5.41E+12	2.823	0.08373	0.1288	20	0.9631	9.1	24
Lovelace	st12	14Oct09EtOH_Buff	U/A	EE2	-29.84	104.1	-8.363	-0.298	21.86	12.18	0.1796	0.1107	20	0.9368	11.16	24
Lovelace	st12	19Aug10EtOH	U	E2	-4.961	746.9	-7.744	-0.9486	10.19	16.82	0.08262	0.07313	23	0.9917	28.81	27
Lovelace	st12	19Aug10EtOH	U	NE	2.568	623	-5.242	-1.092	12.81	11.55	0.06973	0.09137	20	0.9923	23.43	24
Lovelace	st12	19Aug10EtOH	U/U	DBP												21
Lovelace	st12	19Aug10EtOH_Buffer	A	E2	-0.4664	92.31	-8.983	-0.9562	1.299	2.134	0.02904	0.07629	23	0.9911	3.683	27
Lovelace	st12	19Aug10EtOH_Buffer	U	NE	0.3089	77.2	-6.469	-1.108	1.507	1.363	0.02739	0.0888	20	0.9929	2.793	24
Lovelace	st12	19Aug10EtOH_Buffer	A/U	DBP												21
Lovelace	st12	25Sep09 EtOH	U	E2	-3.189	106.6	-8.733	-0.5516	3.754	6.383	0.06057	0.09041	23	0.974	6.424	27
Lovelace	st12	25Sep09 EtOH	A	NE	4.233	100.6	-6.298	-1.185	4.654	4.742	0.06542	0.2575	20	0.9497	9.715	24
Lovelace	st12	25Sep09 EtOH	U/A	DBP												21
Lovelace	st12	25Sep09EtOH_Buff	U/A	E2-TC	1.717	92.48	-8.956	-0.7638	1.284	1.548	0.04052	0.06341	20	0.9938	3.301	24
Lovelace	st12	25Sep09EtOH_Buff	U/A	DBP-TC												24
Lovelace	st12	25Sep09EtOH_Buff	U/A	EE2	11.57	90.8	-8.465	-0.9652	3.33	3.323	0.1119	0.2244	20	0.9494	8.826	24
Lovelace	st2	01May09EtOH	A	E2	2.005	102.8	-9.44	-0.8531	1.908	4.951	0.04447	0.1078	23	0.9764	5.693	27
Lovelace	st2	01May09EtOH	A	NE	8.912	100.4	-6.197	-1.046	2.61	2.449	0.03664	0.1206	20	0.9853	4.728	24
Lovelace	st2	01May09EtOH	A/A	DBP												21
Lovelace	st2	01May09EtOH	A/A	ButylPar	26.49	92.25	-4.787	-1.165	10.16	2.349	0.1561	0.6633	20	0.8769	8.798	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st2	01May09EtOH	A/A	Hexestrol	8.091	105.9	-7.217	-0.6324	7.697	7.334	0.2058	0.2295	20	0.8846	15.7	24
Lovelace	st2	01May09EtOH	A/A	DES	12.5	94.77	-7.756	-0.9691	2.38	1.732	0.06343	0.1514	20	0.9825	5.196	24
Lovelace	st2	01May09EtOH	A/A	Gen	7.671	94.78	-7.018	-0.8219	2.463	1.991	0.06507	0.1184	20	0.9829	5.357	24
Lovelace	st2	06Feb09EtOH	U	E2	-0.5208	114.2	-8.18	-0.6448	11.24	12.21	0.1538	0.2516	20	0.8778	16.23	24
Lovelace	st2	06Feb09EtOH	U	NE	-14.18	125.5	-5.487	-0.761	23.28	6.898	0.09802	0.2452	18	0.9344	12.81	22
Lovelace	st2	06Feb09EtOH	U/U	DBP												21
Lovelace	st2	06Feb09EtOH	U/U	ButylPar	26.95	130.7	-4.739	-1.098	9.433	3.035	0.1363	0.3218	20	0.9252	11.26	24
Lovelace	st2	06Feb09EtOH	U/U	Equol	9.245	121.4	-6.78	-0.9507	4.309	3.545	0.09855	0.2141	20	0.9659	10.04	24
Lovelace	st2	06Feb09EtOH	U/U	NPhenol												24
Lovelace	st2	06Feb09EtOH	U/U	DDT		127.5				3.943			20	0.8254	15.27	24
Lovelace	st2	06Feb09EtOH	U/U	DES	8.324	128.1	-6.971	-0.6883	6.976	3.614	0.1203	0.1394	20	0.9616	10.22	24
Lovelace	st2	09Feb09EtOH	U	E2	-3.833	92.62	-8.375	-0.725	4.379	4.452	0.07597	0.1484	23	0.96	8.095	27
Lovelace	st2	09Feb09EtOH	U	NE	29.32	116.4	-6.068	-2.031	10.13	10.36	0.2213	1.345	12	0.7979	22.5	16
Lovelace	st2	09Feb09EtOH	U/U	DBP												21
Lovelace	st2	09Feb09EtOH	U/U	ButylPar	9.245	121.4	-6.78	-0.9507	4.309	3.545	0.09855	0.2141	20	0.9659	10.04	24
Lovelace	st2	09Feb09EtOH	U/U	Equol	0.1055	84.37	-7.897	-0.8154	3.23	3.502	0.1097	0.176	20	0.9582	8.247	24
Lovelace	st2	09Feb09EtOH	U/U	NPhenol	-31.38	100.9	-4.525	-0.6498	107.9	2.326	0.1464	0.3424	20	0.928	7.721	24
Lovelace	st2	09Feb09EtOH	U/U	DDT	-2.23E+11	116.3	-5.297	-0.3336	3.18E+12	2.118	0.05535	0.04513	20	0.9634	5.769	24
Lovelace	st2	09Feb09EtOH	U/U	DES	1.684	103.9	-8.096	-1.017	1.527	1.356	0.03462	0.09528	20	0.9941	3.818	24
Lovelace	st2	10April09EtOH	U	E2	12.44	1105	-7.252	-1.564	33.51	32.18	0.2558	0.3059	23	0.9669	96.35	27
Lovelace	st2	10April09EtOH	U	NE												24
Lovelace	st2	10April09EtOH	U/U	DBP												21
Lovelace	st2	10April09EtOH	U/U	Cort												24
Lovelace	st2	10April09EtOH	U/U	Hexestrol		1044		-0.8412		29.45		0.1488	20	0.9729	77.37	24
Lovelace	st2	10April09EtOH	U/U	Gen												24
Lovelace	st2	10April09EtOH	U/U	EE2	32.83	575	-6.256	-1.487	28.19	39.9	0.5612	0.7977	20	0.8895	94.65	24
Lovelace	st2	12Feb09EtOH	U	E2	-1.248			-0.7467	5.187			0.4201	22	0.7497	10.33	26
Lovelace	st2	12Feb09EtOH	U	NE	2.678		-7.555	-0.3076	8.849		0.1634	0.162	20	0.8507	12.66	24
Lovelace	st2	12Feb09EtOH	U/U	DBP												21
Lovelace	st2	12Feb09EtOH	U/U	ButylPar	-55.8	104.5	-4.108	-0.285	172.9	7.686	0.2248	0.1869	20	0.8812	11.01	24
Lovelace	st2	12Feb09EtOH	U/U	Equol	9.387	118.2	-6.127	-0.7984	10.01	9.645	0.2612	0.3802	20	0.8188	23.93	24
Lovelace	st2	12Feb09EtOH	U/U	NPhenol	-17	101.8	-4.976	-0.5585	23.19	1.793	0.08182	0.1224	20	0.9729	5.437	24
Lovelace	st2	12Feb09EtOH	U/U	DDT	29.58	99.83	-5.338	-1.281	4.153	1.697	0.1182	0.2966	20	0.9578	6.343	24
Lovelace	st2	12Feb09EtOH	U/U	DES	10.57	99.68			6.566	6.266			20	0.8506	19.1	24
Lovelace	st2	13May09EtOH	U	E2	-0.7256	128.4	-8.133	-0.7585	2.75	3.244	0.04611	0.07929	23	0.9884	5.788	27
Lovelace	st2	13May09EtOH	U	NE	-162.9	156.8	-5.37	-0.2977	558.4	44.66	0.1527	0.3454	20	0.8653	18.83	24
Lovelace	st2	13May09EtOH	U/U	DBP												21

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st2	13May09EtOH	U/U	ButylPar												24
Lovelace	st2	13May09EtOH	U/U	Hexestrol	20.33	113.3	-7.142	-0.7341	2.073	2.162	0.07258	0.0851	20	0.9869	4.914	24
Lovelace	st2	13May09EtOH	U/U	DES	19.95	114.5	-7.666	-0.6022	2.417	2.038	0.07335	0.06513	20	0.9887	4.423	24
Lovelace	st2	13May09EtOH	U/U	Gen	13.05	115.5	-5.971	-0.7208	3.557	1.831	0.06968	0.08881	20	0.9855	5.332	24
Lovelace	st2	14Feb09DMSO	DMSO(U)	E2	2.512	131.3	-8.744	-1.321	3.949	5.861	0.06142	0.2563	23	0.9568	12.26	27
Lovelace	st2	14Feb09DMSO	DMSO(U)	NE	-6.392	147.4	-6.399	-0.7123	5.638	7.937	0.05391	0.1103	20	0.9773	8.409	24
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	DBP												21
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	Cort												24
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	Hexestrol	4	141.9	-6.495	-1.035	2.994	2.133	0.05808	0.1229	20	0.99	6.608	24
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	Gen	4.474	128	-6.288	-1.083	10.14	6.708	0.186	0.3997	20	0.877	21.79	24
Lovelace	st2	14Feb09DMSO	DMSO(U)/DMSO(U)	EE2	3.503	131.3	-7.367	-1.217	6.969	7.022	0.1619	0.3873	20	0.9116	19.79	24
Lovelace	st2	16April09EtOH	A	E2	1.157	99	-8.478	-0.9501	5.648	7.043	0.109	0.3012	23	0.8952	14.6	27
Lovelace	st2	16April09EtOH	U	NE	-37.29	149.2	-5.851	-0.3465	87.47	45.71	0.1625	0.294	20	0.8687	16.9	24
Lovelace	st2	16April09EtOH	A/U	DBP												21
Lovelace	st2	16April09EtOH	A/U	Cort												24
Lovelace	st2	16April09EtOH	A/U	Hexestrol	16.59	103.2	-7.027	-1.207	3.217	3.021	0.08608	0.3276	20	0.9602	8.711	24
Lovelace	st2	16April09EtOH	A/U	Gen	14.5	63.34	-7.566	-0.8401	4.902	4.009	0.3162	0.4395	20	0.8161	10.85	24
Lovelace	st2	16April09EtOH	A/U	EE2	10.97	100.2	-8.351	-0.8298	1.817	2.957	0.06672	0.1129	20	0.982	5.457	24
Lovelace	st2	17Feb09DMSO	DMSO(A)	E2	0.7821	103.9	-8.933	-1.005	0.7678	1.295	0.0151	0.0435	23	0.9973	2.242	27
Lovelace	st2	17Feb09DMSO	DMSO(A)	NE	6.286	104.5	-6.648	-0.9845	2.818	4.182	0.04585	0.1429	20	0.9756	6.246	24
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	DBP												21
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	Cort	24.55	104.7	-4.193	-1.512	6.255	2.61	0.1198	0.4236	20	0.9203	9.96	24
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	Hexestrol	1.238	113.3	-6.674	-0.9006	1.551	1.1	0.031	0.06178	20	0.9962	3.246	24
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	Gen	3.737	104.4	-6.762	-0.9965	3.032	2.206	0.06563	0.1658	20	0.9809	6.684	24
Lovelace	st2	17Feb09DMSO	DMSO(A)/DMSO(A)	EE2	2.282	105.6	-7.616	-1.051	0.9842	1.025	0.02595	0.06145	20	0.9971	2.729	24
Lovelace	st2	19Feb09DMSO	DMSO(U)	E2	1.195	131.2	-8.798	-1.162	2.311	3.747	0.03726	0.1258	23	0.9846	7.054	27
Lovelace	st2	19Feb09DMSO	DMSO(U)	NE	1.349	132.3	-6.356	-0.8875	3.159	4.034	0.03812	0.09449	20	0.9872	5.886	24
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	DBP												21
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	Cort												24
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	Hexestrol	4.442	141.4	-6.715	-0.7499	2.248	1.86	0.04601	0.05913	20	0.9943	4.738	24
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	Gen	7.281	152	-6.597	-0.5152	6.467	5.761	0.1315	0.09161	20	0.971	10.47	24
Lovelace	st2	19Feb09DMSO	DMSO(U)/DMSO(U)	EE2	6.855	143.8	-7.619	-1.122	6.767	7.782	0.1736	0.4592	20	0.9201	19.7	24
Lovelace	st2	21April09EtOH	U	E2		121.7				3.268			23	0.9496	12.65	27
Lovelace	st2	21April09EtOH	A	NE	-1.268	123.8	-6.239	-0.7302	4.156	4.214	0.04018	0.0859	20	0.9866	5.397	24
Lovelace	st2	21April09EtOH	U/A	DBP												21
Lovelace	st2	21April09EtOH	U/A	Cort	24.36	121.2	-4.298	-1.332	10.54	4.349	0.2285	0.5741	20	0.8676	16.34	24
Lovelace	st2	21April09EtOH	U/A	Hexestrol	2.824	108.8	-6.597	-0.4939	5.221	6.413	0.1299	0.1108	20	0.9556	9.408	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st2	21April09EtOH	U/A	Gen	2.348	125.1	-6.514	-0.5068	2.665	3.528	0.06336	0.05278	20	0.99	5.106	24
Lovelace	st2	21April09EtOH	U/A	EE2	7.475	86.26	-9.44	-0.718	1.15	17.55	0.08952	0.195	20	0.9686	3.924	24
Lovelace	st2	24April09EtOH	U	E2	-0.1557	133	-8.166	-0.8059	4.625	5.726	0.07854	0.1438	23	0.9656	10.55	27
Lovelace	st2	24April09EtOH	U	NE	0.2571	138	-5.942	-0.7202	4.479	3.668	0.03763	0.07321	20	0.9904	5.002	24
Lovelace	st2	24April09EtOH	U/U	DBP												21
Lovelace	st2	24April09EtOH	U/U	Cort												24
Lovelace	st2	24April09EtOH	U/U	Hexestrol	30.47	88.08			5.475	11.63			20	0.6212	20.86	24
Lovelace	st2	24April09EtOH	U/U	Gen	6.706	139	-6.847	-0.5564	6.999	6.604	0.1546	0.126	20	0.9525	12.67	24
Lovelace	st2	24April09EtOH	U/U	EE2	-5.151	93.59	-8.269	-0.3874	10.03	15.05	0.2554	0.1712	20	0.8731	13.95	24
Lovelace	st2	24Feb09EtOH	A	E2	-0.4577	101.5	-8.8	-1.052	1.182	1.763	0.02247	0.07027	23	0.9941	3.401	27
Lovelace	st2	24Feb09EtOH	A	NE	-2.363	105.5	-6.381	-0.7713	3.862	3.795	0.04108	0.09848	20	0.9836	5.287	24
Lovelace	st2	24Feb09EtOH	A/A	DBP	43	93.53			79.71	3.109			17	0.7647	10.77	21
Lovelace	st2	24Feb09EtOH	A/A	ButylPar	20.51	109.6	-5.449	-0.5374	4.652	1.564	0.07989	0.06807	20	0.9861	4.011	24
Lovelace	st2	24Feb09EtOH	A/A	Equol	7.89	88.56	-6.953	-1.963	6.677	5.128	0.1395	3.887	20	0.8526	16.89	24
Lovelace	st2	24Feb09EtOH	A/A	NPhenol	-1.03E+12	127.7	-5.978	-0.1153	4.84E+12	14.91	0.1573	0.03925	20	0.9079	9.724	24
Lovelace	st2	24Feb09EtOH	A/A	DDT	-38.33	97.83	-5.31	-0.9018	667.4	3.521	0.5174	1.898	20	0.7892	12.77	24
Lovelace	st2	24Feb09EtOH	A/A	DES	1.368	95.78	-8.342	-0.6895	2.214	2	0.05833	0.07622	20	0.9882	4.673	24
Lovelace	st2	28April09EtOH	U	E2	1.023	90.47	-8.198	-1.063	6.232	5.957	0.124	0.4227	23	0.8762	15.21	27
Lovelace	st2	28April09EtOH	U	NE	17.8	66.59	-6.225	-1.753	5.907	4.994	0.1744	1.148	20	0.7413	13.6	24
Lovelace	st2	28April09EtOH	U/U	DBP												21
Lovelace	st2	28April09EtOH	U/U	Cort												24
Lovelace	st2	28April09EtOH	U/U	Hexestrol	14.46	117.7	-7.019	-0.7872	2.787	2.643	0.07931	0.109	20	0.9818	6.553	24
Lovelace	st2	28April09EtOH	U/U	Gen	13.35	110	-6.975	-0.7709	5.118	4.575	0.1428	0.2041	20	0.9383	11.49	24
Lovelace	st2	28April09EtOH	U/U	EE2	9.552	76.14	-8.899	-0.6349	2.907	5.744	0.1641	0.1808	20	0.9273	7.829	24
Lovelace	st2	28May09EtOH	U	E2	-2.838	105.4	-8.572	-0.625	3.655	5.258	0.06106	0.1002	23	0.9732	6.869	27
Lovelace	st2	28May09EtOH	U	NE	7.974	93.02	-6.282	-1.166	4.23	4.114	0.06516	0.2525	20	0.9501	8.503	24
Lovelace	st2	28May09EtOH	U/U	DBP												21
Lovelace	st2	28May09EtOH	U/U	Cort												24
Lovelace	st2	28May09EtOH	U/U	Equol	5.45	99.61	-7.206	-0.7941	1.862	1.682	0.04942	0.08012	20	0.9906	4.272	24
Lovelace	st2	28May09EtOH	U/U	EE2	4.708	99.55	-8.235	-1.065	3.58	1.154	0.04297	0.1239	20	0.9865	4.257	24
Lovelace	st2	30Jan09DMSO	DMSO(U)	E2	4.14E-15		-6.546	-50.87	71.43		1.27E+26	1.18E+28	23	0.3567	175	27
Lovelace	st2	30Jan09DMSO	DMSO(U)/	DBP												21
Lovelace	st2	30Jan09DMSO	DMSO(U)/	ButylPar												24
Lovelace	st2	30Jan09DMSO	DMSO(U)/	Cort												24
Lovelace	st2	30Jan09DMSO	DMSO(U)/	Equol												24
Lovelace	st2	30Jan09DMSO	DMSO(U)/	Hexestrol												24
Lovelace	st2	30Jan09DMSO	DMSO(U)/	NPhenol												24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st2	30Jan09DMSO	DMSO(U)/	DDT												24
Lovelace	st2	30Jan09DMSO	DMSO(U)/	Gen												24
Lovelace	st2	30Jan09DMSO	DMSO(U)/	EE2												24
Lovelace	st3	03May09DMSO	DMSO(U)	E2	-0.6274	169.7	-8.365	-0.6822	2.993	5.572	0.04838	0.06453	23	0.9886	6.968	27
Lovelace	st3	03May09DMSO	DMSO(U)	NE	12.39	143.5	-5.936	-1.283	7.022	6.659	0.08894	0.3101	20	0.9398	14.83	24
Lovelace	st3	03May09DMSO	DMSO(U)/DMSO(U)	DBP												21
Lovelace	st3	03May09DMSO	DMSO(U)/DMSO(U)	BaA_DMSO												24
Lovelace	st3	03May09DMSO_2	DMSO(U)	E2	1.439	144.4	-8.437	-0.7424	5.291	8.991	0.09128	0.1474	23	0.9507	12.88	27
Lovelace	st3	03May09DMSO_2	DMSO(U)	NE	9.605	132.9	-6.203	-1.258	2.646	3.037	0.03699	0.1345	20	0.9876	6.117	24
Lovelace	st3	03May09DMSO_2	DMSO(U)/DMSO(U)	BaA_DMSO												24
Lovelace	st3	03May09DMSO_3	DMSO(U)	E2	-5.4	118	-8.762	-0.7491	6.483	11.44	0.11	0.2139	23	0.9009	16.13	27
Lovelace	st3	03May09DMSO_3	DMSO(U)	NE	-11.55	127.1	-6.214	-0.801	3.187	2.894	0.02655	0.06399	20	0.9934	4.35	24
Lovelace	st3	03May09DMSO_3	DMSO(U)/DMSO(U)	DBP												21
Lovelace	st3	03May09DMSO_3	DMSO(U)/DMSO(U)	BaA_DMSO												24
Lovelace	st3	10Mar09EtOH	U	E2	-24.32	143.7	-8.408	-0.3026	44.47	62.64	0.2119	0.256	23	0.8346	19.34	27
Lovelace	st3	10Mar09EtOH	U	NE	15.67	120.5			6.784	4.796			20	0.9059	16.61	24
Lovelace	st3	10Mar09EtOH	U/U	DBP												21
Lovelace	st3	10Mar09EtOH	U/U	DBP-TC												24
Lovelace	st3	10Mar09EtOH	U/U	Tamox	10.52	131.9	-6.654	-0.6285	13.33	5.608	0.2035	0.2058	20	0.9091	15.6	24
Lovelace	st3	10Mar09EtOH	U/U	DHT	-4.02E+11	236.3	-4.998	-0.1194	4.15E+13	69.01	0.6297	0.09796	20	0.5738	49.22	24
Lovelace	st3	10Mar09EtOH	U/U	BPA												24
Lovelace	st3	10Mar09EtOH	U/U	ELactone												24
Lovelace	st3	10Mar09EtOH	U/U	OTES												24
Lovelace	st3	13Mar09EtOH	A	E2	1.203	106.3	-8.475	-1.075	6.463	8.05	0.1156	0.375	23	0.8738	17.82	27
Lovelace	st3	13Mar09EtOH	U	NE	9.092	133.1	-5.436	-0.6645	18.73	8.67	0.1212	0.2231	20	0.9204	12.51	24
Lovelace	st3	13Mar09EtOH	A/U	DBP												21
Lovelace	st3	13Mar09EtOH	A/U	DBP-TC												24
Lovelace	st3	13Mar09EtOH	A/U	Tamox	0.01112	133.2	-7.414	-0.6871	6.116	3.956	0.1055	0.1251	20	0.9692	10.48	24
Lovelace	st3	13Mar09EtOH	A/U	DHT	-44.46	151.6	-5.677	-0.356	111.4	8.547	0.1973	0.1807	20	0.8918	16.63	24
Lovelace	st3	13Mar09EtOH	A/U	ELactone												24
Lovelace	st3	13Mar09EtOH	A/U	OTES												24
Lovelace	st3	13Mar09EtOH	A/U	Atr												24
Lovelace	st3	17Jun09EtOH	U	E2	-2.862	152.8	-8.242	-0.8407	2.287	3.157	0.03578	0.06598	23	0.9925	5.668	27
Lovelace	st3	17Jun09EtOH	U	NE	-7.657	158.7	-6.075	-0.6606	4.175	4.298	0.03165	0.05656	20	0.9936	4.721	24
Lovelace	st3	17Jun09EtOH	U/U	DBP												21
Lovelace	st3	17Jun09EtOH	U/U	E2-TC	1.188	139.1	-9.334	-1.016	1.689	5.024	0.0492	0.109	20	0.9873	6.155	24
Lovelace	st3	17Jun09EtOH	U/U	NE-TC	-0.8571	131.8	-6.079	-0.9073	4.905	2.851	0.07436	0.1406	20	0.9777	9.007	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	Hillslope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st3	17Jun09EtOH	U/U	Zear	0.176	145.7	-7.859	-0.5753	1.684	2.938	0.04154	0.03906	20	0.9956	4.043	24
Lovelace	st3	17Jun09EtOH	U/U	Heptylphenol	44	146.7	-5.591	-1.978	6.276	4.352	0.3729	1.631	20	0.9167	15.01	24
Lovelace	st3	17Jun09EtOH	U/U	Kepone	28.54	167.2	-8.015	-0.6221	10.28	33.61	0.5181	0.3751	20	0.7574	30	24
Lovelace	st3	17Jun09EtOH	U/U	Progesterone	30.39	160.2	-5.648	-0.5065	6.707	5.18	0.1926	0.09587	20	0.9676	9.826	24
Lovelace	st3	19Jun09EtOH	A	E2	-0.3474	102.6	-8.45	-0.9509	3.443	4.266	0.06339	0.1746	23	0.9624	8.881	27
Lovelace	st3	19Jun09EtOH	A	NE	-1.097	98.75	-6.351	-0.8476	2.29	2.102	0.02642	0.06984	20	0.9928	3.354	24
Lovelace	st3	19Jun09EtOH	A/A	DBP												21
Lovelace	st3	19Jun09EtOH	A/A	E2-TC	-3.233			-0.3321	4.055			0.08215	20	0.8732	6.264	24
Lovelace	st3	19Jun09EtOH	A/A	NE-TC	0.9978	53.53	-7.735	-0.6306	6.408	2.216	0.4468	0.2068	20	0.9121	6.399	24
Lovelace	st3	19Jun09EtOH	A/A	Zear	1.283	66.3	-8.981	-0.4847	2.342	3.356	0.1409	0.08477	20	0.973	4.395	24
Lovelace	st3	19Jun09EtOH	A/A	Heptylphenol	10.61	55.43	-6.045	-2.081	4.342	1.916	0.1688	1.333	20	0.8838	7.391	24
Lovelace	st3	19Jun09EtOH	A/A	Kepone	5.647	57.42	-7.289	-0.7983	4.693	2.562	0.3098	0.2775	20	0.8953	7.771	24
Lovelace	st3	19Jun09EtOH	A/A	Progesterone	20.59	54.04	-8.572	-0.966	4.645	4.886	0.7045	0.7987	20	0.6212	12.58	24
Lovelace	st3	20Mar09EtOH	U	E2	10.87	122			32.46	41.9			23	0.1605	125.7	27
Lovelace	st3	20Mar09EtOH	U	NE	3.873	53			7.093	6.365			20	0.6161	19.84	24
Lovelace	st3	20Mar09EtOH	U/U	DBP	-5185000	72.28	-9.974	0.7237	5.38E+12	5.966	0.4448	1.999	17	0.2369	15.89	21
Lovelace	st3	20Mar09EtOH	U/U	DBP-TC	48.52	97.84			3.458	183			20	0.6357	13.39	24
Lovelace	st3	20Mar09EtOH	U/U	Tamox	0.9103	80.77	-6.652	-1.186	7.888	5.293	0.2193	0.5348	20	0.8253	17.5	24
Lovelace	st3	20Mar09EtOH	U/U	DHT												24
Lovelace	st3	20Mar09EtOH	U/U	BPA	15.06	82.28	-4.686	-2.041	13	5.737	0.4641	2.939	20	0.6566	22.11	24
Lovelace	st3	20Mar09EtOH	U/U	ELactone												24
Lovelace	st3	20Mar09EtOH	U/U	OTES	-1.59E+09	160.6	-10.89	0.164	2.01E+13	14.64	0.4627	0.07037	20	0.8377	16.88	24
Lovelace	st3	20Mar09EtOH	U/U	Atr												24
Lovelace	st3	23Jun09EtOH	U	E2	0.03984	129.6	-8.386	-0.8993	4.387	6.064	0.0739	0.1663	23	0.9592	11.39	27
Lovelace	st3	23Jun09EtOH	U	NE	5.82	148.4	-5.959	-0.8846	3.879	3.72	0.04132	0.09042	20	0.9887	6.109	24
Lovelace	st3	23Jun09EtOH	U/U	DBP												21
Lovelace	st3	23Jun09EtOH	U/U	E2-TC	3.37	104.6	-8.446	-0.7991	2.304	3.895	0.07478	0.1219	20	0.9774	6.867	24
Lovelace	st3	23Jun09EtOH	U/U	NE-TC	-9.75E+10	214.3	-5.69	-0.07246	2.06E+13	162.5	0.5753	0.09391	20	0.5593	47.8	24
Lovelace	st3	23Jun09EtOH	U/U	Zear	2.691	127.6	-7.142	-0.6014	4.924	4.923	0.1108	0.109	20	0.9686	9.871	24
Lovelace	st3	23Jun09EtOH	U/U	Heptylphenol	46.93	128.2	-4.23	-1.432	12.68	4.89	1.025	1.043	20	0.7491	18.62	24
Lovelace	st3	23Jun09EtOH	U/U	Kepone	-9.229	146.2	-4.912	-0.3597	70.69	12.06	0.314	0.2231	20	0.821	21.5	24
Lovelace	st3	23Jun09EtOH	U/U	Progesterone												24
Lovelace	st3	24Mar09EtOH	U	E2	2.952	71.12	-8.799	-2.158	6.472	7.391	0.182	1.523	23	0.7186	20.89	27
Lovelace	st3	24Mar09EtOH	U	NE	3.675	75.67	-6.205	-1.41	11.1	8.586	0.201	0.9655	20	0.6893	21.82	24
Lovelace	st3	24Mar09EtOH	U/U	DBP												21
Lovelace	st3	24Mar09EtOH	U/U	DBP-TC												24
Lovelace	st3	24Mar09EtOH	U/U	Tamox	-1.939	112.6	-7.665	-0.8046	2.33	1.595	0.04414	0.07336	20	0.9926	4.537	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Lovelace	st3	24Mar09EtOH	U/U	DHT	8.131	114.5	-5.866	-0.8189	14.49	2.74	0.1192	0.2444	20	0.9348	9.616	24
Lovelace	st3	24Mar09EtOH	U/U	BPA	10.21	116.1	-5.787	-1.231	4.144	2.095	0.07147	0.3044	20	0.9769	7.318	24
Lovelace	st3	24Mar09EtOH	U/U	ELactone	-2.19E+10	115.6	-4.103	-0.289	3.52E+12	5.971	0.1122	0.09455	20	0.8685	9.675	24
Lovelace	st3	24Mar09EtOH	U/U	OTES												24
Lovelace	st3	24Mar09EtOH	U/U	Atr												24
Lovelace	st3	25Jun09EtOH	U	E2	-0.995	142.5	-8.34	-0.8262	1.659	2.415	0.02718	0.05119	23	0.9952	4.146	27
Lovelace	st3	25Jun09EtOH	U	NE	2.54	151.9	-5.982	-0.7561	4.07	4.006	0.03874	0.07289	20	0.9907	5.438	24
Lovelace	st3	25Jun09EtOH	U/U	DBP												21
Lovelace	st3	25Jun09EtOH	U/U	Tamox	5.968	137.9	-7.311	-0.9205	1.082	1.129	0.02614	0.04323	20	0.9979	2.872	24
Lovelace	st3	25Jun09EtOH	U/U	DHT	2.619	122.6	-5.616	-0.7166	8.213	2.978	0.1034	0.1458	20	0.9649	9.206	24
Lovelace	st3	25Jun09EtOH	U/U	ELactone	50	137.7	-5.558	-2.767								24
Lovelace	st3	25Jun09EtOH	U/U	OTES												24
Lovelace	st3	30Jun09EtOH	A	E2	0.3315	104	-8.688	-0.8775	1.736	2.62	0.03335	0.08063	23	0.989	4.579	27
Lovelace	st3	30Jun09EtOH	A	NE	-0.8078	105.8	-6.403	-0.7111	3.475	3.514	0.03614	0.08095	20	0.9877	4.343	24
Lovelace	st3	30Jun09EtOH	A/A	DBP												21
Lovelace	st3	30Jun09EtOH	A/A	E2-TC	-1.585	67.7	-9.891	-0.5035	2.46	7.527	0.1739	0.1262	20	0.9493	5.965	24
Lovelace	st3	30Jun09EtOH	A/A	NE-TC	2.08	101.7	-6.296	-0.7578	2.052	1.103	0.0374	0.05791	20	0.9943	3.271	24
Lovelace	st3	30Jun09EtOH	A/A	Zear	0.6876	103.2	-7.735	-0.6959	2.089	2.421	0.05719	0.07645	20	0.9885	5.004	24
Lovelace	st3	30Jun09EtOH	A/A	Tamox	1.754	100.6	-7.652	-0.8233	1.734	1.861	0.04801	0.08094	20	0.991	4.431	24
Lovelace	st3	30Jun09EtOH	A/A	DHT	5.291	108.6	-7.312	-0.3745	5.95	6.585	0.1191	0.07917	20	0.9688	6.849	24
Lovelace	st3	30Jun09EtOH	A/A	BPA	8.966	106.1	-6.427	-0.4929	1.996	2.302	0.05378	0.04467	20	0.9925	3.49	24
Lovelace	st3	30Jun09EtOH	A/A	Heptylphenol	32.55	108.4	-6.318	-0.3575	7.521	9.496	0.3033	0.1352	20	0.912	8.478	24
Lovelace	st3	30Jun09EtOH	A/A	Kepone	-7.052	121.5	-6.449	-0.2325	34.43	21.1	0.2359	0.1313	20	0.9176	10.62	24
Lovelace	st3	30Jun09EtOH	A/A	Progesterone	30.62	72.86	-6.454	-0.7695	4.199	2.544	0.2001	0.3042	20	0.8668	7.381	24
Lovelace	st3	31Mar09EtOH	U	E2	2.723	300.6	-8.576	-1.337	12.49	21.26	0.1412	0.3668	23	0.9117	40.46	27
Lovelace	st3	31Mar09EtOH	U	NE	-6.865	375	-5.649	-1.098	18.41	18.55	0.114	0.2277	20	0.9536	36.15	24
Lovelace	st3	31Mar09EtOH	U/U	DBP												21
Lovelace	st3	31Mar09EtOH	U/U	E2-TC	-27.5	353.6	-8.218	-0.6843	11.44	15.89	0.1424	0.1204	20	0.9716	29.06	24
Lovelace	st3	31Mar09EtOH	U/U	NE-TC	-23.85	369.8	-5.363	-0.6893	59.38	11.84	0.19	0.2106	20	0.9261	38.68	24
Lovelace	st3	31Mar09EtOH	U/U	Zear	-6.017	377.4	-6.998	-1.419	29.76	23.17	0.2551	0.4881	20	0.8724	69.4	24
Lovelace	st3	31Mar09EtOH	U/U	Heptylphenol												24
Lovelace	st3	31Mar09EtOH	U/U	Kepone												24
Lovelace	st3	31Mar09EtOH	U/U	Progesterone												24
Missouri	st1	3005	U	E2	1.004	137.4	-9.414	-0.624	2.589	12.61	0.051	0.09777	23	0.9744	6.671	27
Missouri	st1	3005	A	NE	6.123	106.3	-6.369	-1.023	2.472	2.817	0.03534	0.112	20	0.9864	4.924	24
Missouri	st1	3005	U/A	DBP												21
Missouri	st1	3006	U	E2	-5.691	155.3	-9.521	-0.3619	5.09	47.38	0.07213	0.1019	23	0.9677	6.312	27

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st1	3006	A	NE	3.662	90.53	-6.64	-1.082	1.621	2.083	0.02801	0.09861	20	0.9904	3.595	24
Missouri	st1	3006	U/A	DBP												21
Missouri	st1	3008	U	E2	-1.216	123.8	-9.466	-0.5722	1.929	8.996	0.04016	0.06857	23	0.9855	4.548	27
Missouri	st1	3008	A	NE	3.215	106.5	-6.576	-0.8259	1.538	2.074	0.02122	0.05419	20	0.9953	2.727	24
Missouri	st1	3008	U/A	DBP												21
Missouri	st1	7003	A	E2	0.5582	111.3	-8.919	-1.087	1.031	1.031	0.02462	0.08203	23	0.9969	3.053	27
Missouri	st1	7003	A	NE	0.8183	102.2	-6.359	-0.9501	1.544	1.574	0.01959	0.05819	20	0.9958	2.705	24
Missouri	st1	7003	A/A	DBP												21
Missouri	st1	7004	A	E2	-0.09245	112.9	-8.869	-0.919	1.843	1.801	0.04582	0.09948	23	0.9911	5.144	27
Missouri	st1	7004	A	NE	0.7381	109.3	-6.395	-0.9441	2.143	2.413	0.02716	0.07886	20	0.9921	3.954	24
Missouri	st1	7004	A/A	DBP												20
Missouri	st1	7005	A	E2	-0.3871	105.7	-8.921	-0.8772	2.299	2.232	0.06016	0.1205	23	0.9849	6.29	27
Missouri	st1	7005	A	NE	0.09925	101.2	-6.469	-0.8916	1.397	1.552	0.01817	0.05033	20	0.9964	2.421	24
Missouri	st1	7005	A/A	DBP												20
Missouri	st1	7006	A	E2	-0.5713	107.4	-8.855	-0.9939	1.834	2.983	0.03414	0.09709	23	0.9868	5.277	27
Missouri	st1	7006	A	NE	1.228	110.6	-6.47	-0.7913	3.359	4.08	0.0409	0.09878	20	0.9836	5.359	24
Missouri	st1	7006	A/A	DBP												20
Missouri	st1	7007	A	E2	0.1206	109.2	-8.924	-0.9645	1.163	2.03	0.02204	0.0595	23	0.9945	3.368	27
Missouri	st1	7007	A	NE	0.9203	107.8	-6.398	-0.8423	1.448	1.584	0.0175	0.04498	20	0.9969	2.342	24
Missouri	st1	7007	A/A	DBP												20
Missouri	st2	9003	A	E2	-1.342	106.3	-9.107	-0.891	1.877	3.727	0.03764	0.09124	23	0.9842	5.412	27
Missouri	st2	9003	A	NE	0.1107	105.5	-6.262	-0.951	1.264	1.188	0.0148	0.04393	20	0.9976	2.109	24
Missouri	st2	9003	A/A	DBP												21
Missouri	st2	9003	A/A	ButylPar	-8.7	102.2	-4.217	-0.8102	5.241	1.071	0.0388	0.08558	20	0.9907	3.739	24
Missouri	st2	9003	A/A	Cort												24
Missouri	st2	9003	A/A	Equol	2.826	106.6	-6.256	-1.127	1.112	1.078	0.02702	0.07336	20	0.9965	3.033	24
Missouri	st2	9003	A/A	Hexestrol	0.643	104	-7.533	-1.209	0.5684	0.8496	0.01743	0.04583	20	0.9985	1.888	24
Missouri	st2	9003	A/A	NPhenol	1.021	106	-5.467	-0.6216	3.215	1.794	0.0571	0.06563	20	0.9893	4.632	24
Missouri	st2	9003	A/A	DDT	21.25	104.3	-5.159	-1.461	1.353	0.6212	0.02246	0.09084	17	0.9966	2.108	21
Missouri	st2	9003	A/A	DES	0.7357	103.4	-8.533	-0.9643	0.5377	1.652	0.01964	0.04466	20	0.9977	1.937	24
Missouri	st2	9003	A/A	EE2	1.492	104.9	-8.856	-1.132	0.5616	2.028	0.01791	0.07877	20	0.997	2.095	24
Missouri	st2	9003	A/A	GenB	0.1224	105.2	-7.238	-0.9429	0.976	0.9126	0.02329	0.04947	20	0.9976	2.466	24
Missouri	st2	9003	A/A	GenW	-0.02511	105.4	-6.749	-1.159	1.575	1.127	0.03193	0.1046	20	0.9951	3.595	24
Missouri	st2	9004	A	E2	-0.8108	107.5	-9.128	-0.8654	1.482	3.059	0.0299	0.07	23	0.99	4.249	27
Missouri	st2	9004	A	NE	1.952	102.1	-6.253	-0.972	1.972	1.822	0.02415	0.07387	20	0.9936	3.322	24
Missouri	st2	9004	A/A	DBP												21
Missouri	st2	9004	A/A	ButylPar	-1.066	97.66	-4.128	-1.07	3.56	0.936	0.03213	0.1246	20	0.9908	3.466	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st2	9004	A/A	Cort												22
Missouri	st2	9004	A/A	Equol	6.195	100.5	-6.211	-1.26	1.44	1.54	0.03707	0.1359	18	0.9928	4.01	22
Missouri	st2	9004	A/A	Hexestrol	0.9383	100.1	-7.581	-1.173	0.665	1.005	0.0211	0.05477	20	0.9978	2.201	24
Missouri	st2	9004	A/A	NPhenol	13.26	101.3	-5.389	-0.8486	2.132	1.343	0.05187	0.08657	20	0.9899	4.047	24
Missouri	st2	9004	A/A	DDT	25.97	99.9	-5.062	-2.676	3.117	1.54	0.08034	3.199	17	0.9745	5.328	21
Missouri	st2	9004	A/A	DES	0.2786	100.4	-8.576	-0.9088	0.5291	1.732	0.02018	0.0433	20	0.9976	1.881	24
Missouri	st2	9004	A/A	EE2	0.5279	102	-8.898	-1.058	1.172	3.57	0.02954	0.1222	14	0.9938	3.248	18
Missouri	st2	9004	A/A	GenB	2.092	105.4	-7.257	-0.7392	2.3	2.136	0.05696	0.08132	20	0.9884	5.155	24
Missouri	st2	9004	A/A	GenW	-0.2512	99.49	-6.715	-1.122	2.068	1.507	0.04356	0.1239	19	0.9909	4.616	23
Missouri	st2	9005	A	E2	-2.119	105.6	-9.137	-0.9062	2.058	4.1	0.0413	0.1023	23	0.9807	5.993	27
Missouri	st2	9005	A	NE	-0.9134	99.05	-6.327	-1.001	2.141	2.043	0.02683	0.08542	20	0.9919	3.775	24
Missouri	st2	9005	A/A	DBP												21
Missouri	st2	9005	A/A	ButylPar	-10.16	93.48	-4.324	-0.8105	5.099	1.037	0.04006	0.08897	20	0.99	3.62	24
Missouri	st2	9005	A/A	Cort												24
Missouri	st2	9005	A/A	Equol	0.4602	100.5	-6.358	-1.025	1.588	1.54	0.04108	0.09289	20	0.9925	4.224	24
Missouri	st2	9005	A/A	Hexestrol	-1.95	96.15	-7.607	-1.167	0.687	1.034	0.02201	0.05615	20	0.9976	2.269	24
Missouri	st2	9005	A/A	NPhenol	-1.049	94.25	-5.643	-0.6681	2.876	1.646	0.05658	0.07305	20	0.9885	4.449	24
Missouri	st2	9005	A/A	DDT	16.87	92.17	-5.306	-1.355	1.824	0.8195	0.03421	0.1142	17	0.9929	2.761	21
Missouri	st2	9005	A/A	DES	-1.694	95.85	-8.618	-0.9713	0.6749	2.057	0.02628	0.05922	20	0.996	2.435	24
Missouri	st2	9005	A/A	EE2	-2.062	98.9	-8.893	-1.104	0.8711	2.32	0.02165	0.08923	14	0.9966	2.436	18
Missouri	st2	9005	A/A	GenB	-1.424	98.08	-7.282	-1.129	1.385	1.317	0.03501	0.1015	20	0.9942	3.73	24
Missouri	st2	9005	A/A	GenW	-2.421	95.49	-6.806	-1.067	2.066	1.452	0.04339	0.1211	20	0.9906	4.568	24
Missouri	st2	9007	A	E2	-0.6171	102.9	-9.21	-0.9845	1.607	3.221	0.03338	0.09285	23	0.9864	4.874	27
Missouri	st2	9007	A	NE	-2.793	99.57	-6.449	-0.8204	2.857	2.872	0.03341	0.0851	20	0.9886	4.269	24
Missouri	st2	9007	A/A	DBP												21
Missouri	st2	9007	A/A	ButylPar	-11.05	104.8	-4.077	-0.9249	7.254	1.401	0.04571	0.1444	20	0.9841	5.069	24
Missouri	st2	9007	A/A	Cort												24
Missouri	st2	9007	A/A	Equol	3.403	101.1	-6.087	-1.215	1.498	1.355	0.0332	0.1476	20	0.9933	3.958	24
Missouri	st2	9007	A/A	Hexestrol	1.218	105.6	-7.666	-1.16	0.5403	0.8449	0.01627	0.04699	20	0.9986	1.794	24
Missouri	st2	9007	A/A	NPhenol	-0.1542	107.7	-5.296	-0.5931	3.3	1.608	0.05182	0.05667	20	0.9914	4.146	24
Missouri	st2	9007	A/A	DDT	26.87	104.4	-5.003	-1.713	2.017	0.9412	0.02916	0.2853	17	0.9907	3.226	21
Missouri	st2	9007	A/A	DES	1.364	103.8	-8.386	-1.234	0.2952	0.741	0.01052	0.03141	20	0.9994	1.102	24
Missouri	st2	9007	A/A	EE2	0.677	106.1	-8.505	-0.7302	0.9563	3.911	0.03666	0.06259	20	0.9933	3.164	24
Missouri	st2	9007	A/A	GenB	0.03057	103.3	-6.963	-0.9133	2.256	1.795	0.0487	0.1109	20	0.9893	5.078	24
Missouri	st2	9007	A/A	GenW	1.051	103.3	-6.679	-1.101	2.081	1.448	0.04363	0.1184	20	0.9912	4.622	24
Missouri	st3	8001	U	E2	0.1329	88.12	-9.092	-0.9064	1.289	2.247	0.03185	0.07545	23	0.9901	3.619	27
Missouri	st3	8001	U	NE	3.922	80.63	-6.24	-1.111	2.771	2.12	0.04257	0.1524	20	0.9805	4.618	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st3	8001	U/U	DBP												21
Missouri	st3	8001	U/U	Heptylphenol												21
Missouri	st3	8001	U/U	Kepone	0.3238	93.07	-5.065	-1.041	1.308	0.6535	0.02162	0.07227	20	0.9971	2.203	24
Missouri	st3	8001	U/U	ELactone	17.62	90.1	-3.924	-0.942	4.146	0.8101	0.04556	0.1378	20	0.9863	2.941	24
Missouri	st3	8001	U/U	Progesterone												24
Missouri	st3	8001	U/U	OTES												24
Missouri	st3	8001	U/U	Atr												24
Missouri	st3	8001	U/U	BaA_Ethol												24
Missouri	st3	8002	U	E2	-0.3397	81.14	-9.126	-0.922	0.6777	1.126	0.01895	0.04334	23	0.9969	1.893	27
Missouri	st3	8002	U	NE	1.491	76.31	-6.283	-1.016	1.468	1.004	0.02237	0.06824	20	0.9954	2.105	24
Missouri	st3	8002	U/U	DBP												21
Missouri	st3	8002	U/U	Heptylphenol												21
Missouri	st3	8002	U/U	Kepone	-0.08459	92.63	-5.031	-0.9954	1.539	0.7216	0.02467	0.07473	20	0.9964	2.431	24
Missouri	st3	8002	U/U	ELactone	12.77	94.19	-3.873	-0.8946	5.892	0.9369	0.05084	0.1452	20	0.9847	3.371	24
Missouri	st3	8002	U/U	BaA_Ethol												24
Missouri	st3	8003	A	E2	0.334	103.2	-9.031	-0.9806	0.9027	1.628	0.01823	0.05041	23	0.9961	2.656	27
Missouri	st3	8003	A	NE	-0.3032	96.53	-5.92	-0.9015	3.011	1.595	0.0255	0.07882	20	0.9929	3.2	24
Missouri	st3	8003	A/A	DBP												21
Missouri	st3	8003	A/A	Heptylphenol												22
Missouri	st3	8003	A/A	Kepone	15.6	112.3	-4.96	-1.016	3.201	1.874	0.06548	0.1574	20	0.9809	6.118	24
Missouri	st3	8003	A/A	ELactone	1.114	109.6	-3.585	-0.717	30.69	2.265	0.1241	0.262	20	0.9405	7.718	24
Missouri	st3	8003	A/A	Progesterone												24
Missouri	st3	8003	A/A	OTES												24
Missouri	st3	8003	A/A	Atr												20
Missouri	st3	8003	A/A	BaA_Ethol												24
Missouri	st3	8004	A	E2	1.232	114.5	-8.92	-0.9346	1.875	3.418	0.03523	0.08962	23	0.9865	5.414	27
Missouri	st3	8004	A	NE	1.952	106.3	-6.272	-0.9693	3.048	2.985	0.03741	0.1125	20	0.9851	5.307	24
Missouri	st3	8004	A/A	DBP												18
Missouri	st3	8004	A/A	Heptylphenol												22
Missouri	st3	8004	A/A	Kepone	12.81	107.7	-5.256	-1.143	2.751	1.814	0.06156	0.1509	20	0.9825	5.975	24
Missouri	st3	8004	A/A	ELactone	23.52	104.3	-4.009	-0.9243	5.263	1.571	0.08407	0.1653	19	0.9695	5.549	23
Missouri	st3	8004	A/A	Progesterone												24
Missouri	st3	8004	A/A	OTES												22
Missouri	st3	8004	A/A	Atr												23
Missouri	st3	8004	A/A	BaA_Ethol												21
Missouri	st3	8005	A	E2	-0.449	96.83	-9.14	-0.8539	0.5959	1.166	0.01337	0.03022	23	0.9981	1.673	27
Missouri	st3	8005	A	NE	-0.3448	92.07	-6.107	-0.8589	3.386	2.114	0.03308	0.09345	20	0.9886	3.869	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st3	8005	A/A	DBP												21
Missouri	st3	8005	A/A	Progesterone												22
Missouri	st3	8005	A/A	OTES												23
Missouri	st3	8005	A/A	Atr												23
Missouri	st3	8101	A	E2	0.29	96.73	-8.989	-1.495	0.3484	1.001	0.009115	0.06063	23	0.9984	1.344	27
Missouri	st3	8101	A	NE	-1.618	107.8	-6.393	-0.7602	2.576	2.653	0.02765	0.06507	20	0.9926	3.561	24
Missouri	st3	8101	A/A	DBP												21
Missouri	st3	8101	A/A	E2-TC	-0.05607	92.48	-9.08	-1.33	0.2948	1.163	0.009447	0.08032	17	0.9992	0.994	21
Missouri	st3	8101	A/A	NE-TC	0.5058	94.86	-6.477	-0.8361	3.079	2.198	0.06318	0.1134	17	0.9839	5.518	21
Missouri	st3	8101	A/A	DBP-TC												24
Missouri	st3	8101	A/A	Zear	-0.3961	96.05	-7.932	-0.921	1.218	2.166	0.03734	0.09067	17	0.993	3.573	21
Missouri	st3	8101	A/A	Tamox	1.771	93.9	-8.524	-1.233	1.191	1.5	0.0352	0.09425	17	0.9945	3.376	21
Missouri	st3	8101	A/A	DHT	4.192	90.16	-5.911	-0.9059	1.192	0.8616	0.02957	0.06712	19	0.9962	2.512	23
Missouri	st3	8101	A/A	BPA	4.67	94.25	-5.914	-0.7967	1.406	1.036	0.03432	0.05914	20	0.9952	2.848	24
Missouri	st3	8102	A	E2	0.7358	91.49	-9.02	-1.351	0.2371	0.7296	0.007407	0.03852	23	0.9992	0.8891	27
Missouri	st3	8102	A	NE	-0.1939	95.74	-6.435	-0.8221	2.334	2.27	0.02862	0.07306	20	0.9917	3.426	24
Missouri	st3	8102	A/A	DBP												20
Missouri	st3	8102	A/A	E2-TC	0.4107	93.51	-9.1	-1.186	0.4734	2.176	0.01665	0.1018	17	0.9979	1.577	21
Missouri	st3	8102	A/A	NE-TC	0.4472	96.43	-6.52	-0.8075	1.103	0.8039	0.02244	0.0385	17	0.998	1.961	21
Missouri	st3	8102	A/A	DBP-TC												24
Missouri	st3	8102	A/A	Zear	1.138	89.92	-8.064	-1.019	0.8353	1.66	0.03	0.09129	20	0.9949	2.795	24
Missouri	st3	8102	A/A	Tamox	2.434	85.01	-8.567	-1.08	1.06	1.342	0.03576	0.08188	17	0.9948	2.896	21
Missouri	st3	8102	A/A	DHT	4.456	82.75	-6.044	-0.9035	1.714	1.275	0.04842	0.1035	20	0.99	3.69	24
Missouri	st3	8102	A/A	BPA	3.657	86.15	-6.074	-0.6627	2.37	1.7	0.06454	0.08279	18	0.9878	4.146	22
Missouri	st3	8107	A	E2	0.5864	96.77	-9.002	-1.074	1.088	1.8	0.02272	0.07202	23	0.9938	3.246	27
Missouri	st3	8107	A	NE	-4.246	107.6	-6.441	-0.5927	5.628	5.583	0.0467	0.09479	20	0.9812	5.19	24
Missouri	st3	8107	A/A	DBP												21
Missouri	st3	8107	A/A	E2-TC	0.01803	93.44	-9.056	-1.233	0.6877	2.647	0.02146	0.1447	17	0.9958	2.3	21
Missouri	st3	8107	A/A	NE-TC	6.076	97.26	-6.229	-1.022	2.014	1.426	0.04124	0.1069	17	0.9916	3.934	21
Missouri	st3	8107	A/A	DBP-TC												21
Missouri	st3	8107	A/A	Zear	0.3716	101.6	-7.698	-1.021	0.5518	0.7697	0.01457	0.03633	17	0.999	1.518	21
Missouri	st3	8107	A/A	Tamox	-0.7068	95.68	-8.207	-1.59	1.821	2.031	0.05011	0.3383	16	0.9902	4.888	20
Missouri	st3	8107	A/A	DHT	7.728	95.39	-5.617	-1.115	1.386	0.948	0.03391	0.08714	20	0.9947	3.063	24
Missouri	st3	8107	A/A	BPA	11.93	99.23	-5.559	-1.175	2.473	1.703	0.06416	0.1701	20	0.9828	5.56	24
Missouri	st3	8108	A	E2	-1.148	109.9	-8.898	-1.002	1.652	2.62	0.02851	0.08226	22	0.9907	4.534	26
Missouri	st3	8108	U	NE	-8.012	123.1	-6.318	-0.5362	8.206	8.187	0.05383	0.1022	20	0.9777	6.27	24
Missouri	st3	8108	A/U	DBP												21

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st3	8108	A/U	E2-TC	-2.655	102.8	-8.982	-1.124	0.5322	2.06	0.01471	0.07683	17	0.998	1.758	21
Missouri	st3	8108	A/U	NE-TC	2.158	107.5	-6.186	-0.9428	1.754	1.208	0.03103	0.06979	17	0.9956	3.252	21
Missouri	st3	8108	A/U	DBP-TC												21
Missouri	st3	8108	A/U	Zear	-0.9239	107.4	-7.656	-1.117	1.323	1.781	0.03295	0.09072	17	0.9949	3.716	21
Missouri	st3	8108	A/U	Tamox	-5.659	111.1	-8.138	-1.33	0.8291	0.9658	0.01604	0.08507	17	0.9985	2.281	21
Missouri	st3	8108	A/U	DHT	4.44	109.2	-5.542	-1.091	1.35	0.9216	0.02878	0.069	20	0.9965	2.962	24
Missouri	st3	8108	A/U	BPA	6.66	107.6	-5.467	-0.9395	2.283	1.581	0.04918	0.0957	19	0.9904	4.652	23
Missouri	st3	8201	DMSO(A)/DMSO(A)	DBP												21
Missouri	st3	8201	DMSO(A)/DMSO(A)	BaA_DMSO												24
Missouri	st3	8201 DMSO	DMSO(A)	E2	0.131	86.65	-9.064	-1.02	0.6721	1.099	0.01647	0.04601	23	0.9972	1.958	27
Missouri	st3	8201 DMSO	DMSO(A)	NE	0.07747	93.66	-6.622	-0.8431	0.9798	1.159	0.01402	0.03639	20	0.9979	1.659	24
Missouri	st3	8202	DMSO(U)/DMSO(U)	DBP												20
Missouri	st3	8202	DMSO(U)/DMSO(U)	BaA_DMSO												24
Missouri	st3	8202 DMSO	DMSO(U)	E2	0.3768	83.25	-9.142	-1.135	0.523	0.8545	0.0135	0.04325	23	0.998	1.587	27
Missouri	st3	8202 DMSO	DMSO(U)	NE	1.228	81.45	-6.732	-0.9162	0.7933	0.9288	0.01459	0.03863	20	0.998	1.455	24
Missouri	st3	8203	DMSO(A)/DMSO(A)	DBP												21
Missouri	st3	8203	DMSO(A)/DMSO(A)	BaA_DMSO												24
Missouri	st3	8203 DMSO	DMSO(A)	E2	0.173	94.21	-9.15	-1.031	1.853	3.361	0.0415	0.1211	23	0.9799	5.579	27
Missouri	st3	8203 DMSO	DMSO(A)	NE	2.688	94.2	-6.563	-1.036	2.013	2.443	0.03167	0.1054	20	0.9881	4.191	24
Missouri	st4	1101	A	E2	2.138	94.15	-8.883	-1.014	1.719	2.667	0.03715	0.1087	23	0.9846	4.925	27
Missouri	st4	1101	A	NE	2.224	117.5	-6.32	-0.916	3.935	4.362	0.05122	0.134	19	0.9791	6.923	23
Missouri	st4	1101	A/A	DBP												9
Missouri	st4	1101	A/A	Cort-1												22
Missouri	st4	1101	A/A	Dex-1												23
Missouri	st4	1101	A/A	Nethdrone-1	-4.911	89.42	-5.55	-0.937	7.151	2.219	0.09014	0.1985	20	0.9545	7.956	24
Missouri	st4	1101	A/A	HPTE-1	0.06158	84.83			3.202	2.088			20	0.9679	7.339	24
Missouri	st4	1101	A/A	Gen-1	-6.885	89.49	-5.587	-1.849	2.812	1.225	0.05488	0.2197	20	0.9879	4.714	24
Missouri	st4	1101	A/A	BPA-1	-8.452	94.19	-4.734	-1.206	3.208	1.283	0.04387	0.1407	20	0.9883	4.758	24
Missouri	st4	1101	A/A	OTES-1												24
Missouri	st4	1101	A/A	Nethdrone-2	-5.587	99.82	-5.338	-1.528	6.573	2.708	0.09655	0.4024	20	0.9462	10.34	24
Missouri	st4	1102	A	E2	-0.3514	86.2	-9	-1.031	1.743	2.708	0.04209	0.1197	23	0.982	5.028	27
Missouri	st4	1102	A	NE	2.997	106.9	-6.284	-0.8624	3.476	3.412	0.04143	0.1084	20	0.983	5.408	24
Missouri	st4	1102	A/A	DBP												20
Missouri	st4	1102	A/A	BPA-2	-10.32	99.74	-5.973	-0.4117	9.285	5.206	0.1271	0.09543	20	0.9595	8.494	24
Missouri	st4	1102	A/A	Dex-2												24
Missouri	st4	1102	A/A	Nethdrone-3	3.893	91.12	-5.635	-1.285	2.73	1.107	0.0463	0.1476	20	0.9878	4.15	24
Missouri	st4	1102	A/A	Cort-2												24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st4	1102	A/A	HPTE-2	-4.494	102.6	-5.322	-0.5081	20.33	8.369	0.2672	0.2532	20	0.8196	19.49	24
Missouri	st4	1102	A/A	OTES-2												23
Missouri	st4	1102	A/A	Nethdrone-4	-2.428	100.5	-5.465	-1.366	4.637	1.882	0.06743	0.207	20	0.9735	7.125	24
Missouri	st4	1102	A/A	Gen-2	-2.149	92.2	-5.429	-1.519	8.988	3.735	0.1538	0.5462	20	0.8845	14.26	24
Missouri	st4	1103	A	E2	-0.4776	90.45	-8.886	-0.9386	1.529	2.338	0.03433	0.08835	23	0.9882	4.206	27
Missouri	st4	1103	A	NE	-5.149	96.97	-6.308	-0.7122	4.028	2.973	0.03596	0.08262	20	0.9879	4.137	24
Missouri	st4	1103	A/A	DBP												20
Missouri	st4	1103	A/A	Cort-1												24
Missouri	st4	1103	A/A	Dex-1												24
Missouri	st4	1103	A/A	Nethdrone-1	-1.739	81.26	-5.763	-1.367	2.479	1.025	0.04361	0.1566	20	0.9885	3.868	24
Missouri	st4	1103	A/A	HPTE-1	-3.163	78.53	-5.185	-1.412	2.604	1.406	0.06176	0.3816	20	0.9827	4.951	24
Missouri	st4	1104	A	E2	-1.05	110.4	-8.841	-0.8881	1.68	2.874	0.03122	0.07533	23	0.9898	4.641	27
Missouri	st4	1104	A	NE	4.367	110.6	-6.205	-0.8944	3.328	3.174	0.03957	0.1055	20	0.9849	5.282	24
Missouri	st4	1104	A/A	DBP												19
Missouri	st4	1104	A/A	BPA-2	-6.232	107.7	-5.811	-0.4218	3.925	2.341	0.05548	0.04181	20	0.9921	3.873	24
Missouri	st4	1104	A/A	Dex-2												24
Missouri	st4	1104	A/A	Nethdrone-3	-0.1435	100.6	-5.375	-1.449	2.953	1.21	0.04377	0.1532	20	0.9881	4.607	24
Missouri	st4	1104	A/A	Cort-2												24
Missouri	st4	1104	A/A	HPTE-2	2.627	99.2	-5.329	-1.653	2.062	1.429	0.04991	0.2195	20	0.9894	4.891	24
Missouri	st4	1104	A/A	OTES-2												23
Missouri	st4	1104	A/A	Nethdrone-4	1.281	93.47	-5.586	-1.586	5.036	2.147	0.09142	0.3374	20	0.9603	8.205	24
Missouri	st4	1104	A/A	Gen-2	-1.971	91.48	-5.489	-1.943	4.03	1.763	0.08673	0.3586	20	0.9735	6.796	24
Missouri	st4	1105	U	E2	-0.1178	107.6	-8.777	-0.8648	1.353	2.222	0.02571	0.06026	23	0.9933	3.636	27
Missouri	st4	1105	U	NE	11.59	108.4	-6.197	-0.8635	5.307	5.381	0.07362	0.1812	20	0.9539	8.433	24
Missouri	st4	1105	U/U	DBP												21
Missouri	st4	1105	U/U	Gen-1	7.973	90.3	-5.736	-2.519	2.103	0.9369	0.1139	1.089	20	0.991	3.622	24
Missouri	st4	1105	U/U	BPA-1	14.18	99.48	-4.634	-1.359	2.797	1.189	0.05916	0.2226	20	0.9862	4.442	24
Missouri	st4	1105	U/U	OTES-1												24
Missouri	st4	1105	U/U	Nethdrone-2	18.94	95.33	-5.348	-1.848	3.71	1.614	0.0873	0.3663	20	0.9667	6.209	24
Missouri	st4	1106	A	E2	0.7801	106.8	-8.922	-1.18	1.357	2.17	0.02482	0.0923	23	0.992	4.149	27
Missouri	st4	1106	A	NE	2.723	103.3	-6.296	-1.07	1.994	2.009	0.0263	0.09008	20	0.992	3.838	24
Missouri	st4	1106	A/A	DBP												21
Missouri	st4	1106	A/A	Cort-1												24
Missouri	st4	1106	A/A	Dex-1												24
Missouri	st4	1106	A/A	Nethdrone-1	1.971	95.17	-5.507	-1.766	5.937	2.571	0.1151	0.4388	20	0.945	9.876	24
Missouri	st4	1106	A/A	HPTE-1	-7.113	97.15	-5.044	-1.025	5.238	2.49	0.07471	0.2427	20	0.967	8.438	24
Missouri	st4	1106	A/A	Gen-1	-1.631	98.14	-5.605	-1.796	3.21	1.397	0.06119	0.2684	20	0.9857	5.367	24

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st4	1106	A/A	BPA-1	0.5499	100.7	-4.667	-1.196	2.924	1.181	0.04316	0.1381	20	0.9898	4.357	24
Missouri	st4	1106	A/A	OTES-1												22
Missouri	st4	1106	A/A	Nethdrone-2	0.03966	98.99	-5.334	-1.566	3.574	1.49	0.05604	0.2349	20	0.9812	5.701	24
Missouri	st4	1107	A	E2	-1.411	104.9	-9.03	-1.037	1.373	2.419	0.02645	0.07951	23	0.9915	4.112	27
Missouri	st4	1107	A	NE	-1.845	114.6	-6.287	-0.7609	1.649	1.61	0.01652	0.03805	20	0.9975	2.21	24
Missouri	st4	1107	A/A	DBP												19
Missouri	st4	1107	A/A	BPA-2	-3.296	103	-5.774	-0.4433	4.002	2.286	0.06098	0.04835	20	0.9901	4.116	24
Missouri	st4	1107	A/A	Dex-2												24
Missouri	st4	1107	A/A	Nethdrone-3	2.016	97.55	-5.372	-1.49	3.21	1.326	0.05106	0.1859	20	0.9842	5.059	24
Missouri	st4	1107	A/A	Cort-2												23
Missouri	st4	1107	A/A	HPTE-2	1.446	104.8	-5.261	-1.618	2.081	1.433	0.04393	0.2211	20	0.9905	4.903	24
Missouri	st4	1107	A/A	OTES-2												22
Missouri	st4	1107	A/A	Nethdrone-4	4.492	98.16	-5.515	-1.573	2.526	1.074	0.0455	0.1589	20	0.99	4.103	24
Missouri	st4	1107	A/A	Gen-2	-0.5481	101.1	-5.528	-1.756	1.946	0.843	0.03511	0.1358	20	0.9948	3.237	24
Missouri	st4	1108	A	E2	-0.5873	108.9	-8.888	-1.086	1.06	1.713	0.01916	0.06223	23	0.9955	3.155	27
Missouri	st4	1108	A	NE	-5.248	96.26	-6.633	-0.9096	1.309	1.569	0.01803	0.05049	20	0.9965	2.415	24
Missouri	st4	1108	A/A	DBP												21
Missouri	st4	1108	A/A	Cort-1												22
Missouri	st4	1108	A/A	Dex-1												23
Missouri	st4	1108	A/A	Nethdrone-1	-4.531	120.7	-5.444	-1.614	4.17	1.78	0.05791	0.2008	20	0.9847	6.812	24
Missouri	st4	1108	A/A	HPTE-1	-3.665	116.3	-4.91	-1.841	3.483	1.828	0.05121	0.8866	20	0.9858	6.648	24
Missouri	st4	1108	A/A	Gen-1	-5.796	118	-5.941	-0.9897	4.243	2.119	0.05527	0.1566	20	0.9835	7.043	24
Missouri	st4	1108	A/A	BPA-1	-5.061	110.1	-4.89	-0.7311	12.75	4.969	0.1588	0.2543	20	0.9041	15.33	24
Missouri	st4	1108	A/A	OTES-1												24
Missouri	st4	1108	A/A	Nethdrone-2	-7.49	110.5	-5.487	-1.095	6.413	2.367	0.07454	0.1879	20	0.9685	8.708	24
Missouri	st4	1109	A	E2	-2.22	106.4	-8.967	-1.041	1.335	2.261	0.02483	0.07532	23	0.9926	3.959	27
Missouri	st4	1109	A	NE	-10.36	99.39	-6.681	-0.782	4.008	4.744	0.04769	0.1138	20	0.9781	6.214	24
Missouri	st4	1109	A/A	DBP												21
Missouri	st4	1109	A/A	BPA-2	-3.232	77.48	-6.678	-0.5363	5.136	4.048	0.1596	0.1306	20	0.9464	8.103	24
Missouri	st4	1109	A/A	Dex-2												23
Missouri	st4	1109	A/A	Nethdrone-3	-0.4655	86.33	-5.739	-1.455	5.02	2.118	0.08643	0.363	20	0.9573	8.027	24
Missouri	st4	1109	A/A	Cort-2												22
Missouri	st4	1109	A/A	HPTE-2	-5.864	93.09	-5.482	-1.554	5.079	3.515	0.1237	0.4137	20	0.9423	11.98	24
Missouri	st4	1109	A/A	OTES-2												21
Missouri	st4	1109	A/A	Nethdrone-4	-1.933	92.73	-5.733	-1.922	3.149	1.385	0.06829	0.4594	20	0.9848	5.326	24
Missouri	st4	1109	A/A	Gen-2	-4.009	89.32			3.798	1.711			20	0.9771	6.61	24
Missouri	st4	1110	U	E2	2.82	85.17	-9.409	-1.666	2.075	3.842	0.0495	0.3044	23	0.9595	7.356	27

Laboratory	SubTask	Test	Acceptability (E2/NE)	Chemical	Bottom (Estimate)	Top (Estimate)	Logic50 (Estimate)	HillSlope (Estimate)	Bottom (Std Error)	Top (Std Error)	Logic50 (Std Error)	Hillslope (Std Error)	DF	R2	Syx	N
Missouri	st4	1110	A	NE	3.647	89.77	-6.348	-0.9839	3.306	3.037	0.047	0.1463	20	0.976	5.609	24
Missouri	st4	1110	U/A	DBP												18
Missouri	st4	1110	U/A	Cort-1												23
Missouri	st4	1110	U/A	Dex-1												24
Missouri	st4	1110	U/A	Nethdrone-1	2.113	89.18	-5.623	-1.688	3.97	1.712	0.07919	0.3239	20	0.9718	6.562	24
Missouri	st4	1110	U/A	HPTE-1	-0.764	57.68			7.904	4.588			20	0.734	16.52	24
Missouri	st4	1110	U/A	Gen-1	0.9276	78.97	-6.452	-1.009	5.052	2.966	0.1362	0.3027	20	0.9304	9.665	24
Missouri	st4	1110	U/A	BPA-1	1.376	81.43	-6.259	-0.4658	8.197	5.067	0.1878	0.1482	20	0.9183	9.468	24
Missouri	st4	1110	U/A	OTES-1												23
Missouri	st4	1110	U/A	Nethdrone-2	1.098	78.84	-5.429	-1.978	4.309	1.88	0.1413	0.6635	20	0.9547	7.25	24
Missouri	st4	1111	A	E2	2.339	107.4	-8.954	-1.079	2.494	4.256	0.04797	0.153	23	0.9723	7.516	27
Missouri	st4	1111	U	NE	9.649	109.5	-6.175	-0.8757	3.266	3.179	0.04276	0.1079	20	0.9836	5.136	24
Missouri	st4	1111	A/U	DBP												19
Missouri	st4	1111	A/U	Cort-1												22
Missouri	st4	1111	A/U	Dex-1												21
Missouri	st4	1111	A/U	Nethdrone-1	4.607	90.89			11.58	5.175			20	0.7863	20.04	24
Missouri	st4	1111	A/U	HPTE-1	1.596	86.71	-4.944	-1.247	9.749	4.358	0.1509	0.7936	20	0.8511	15.74	24
Missouri	st4	1111	A/U	Gen-1	1.286	102.2	-6.298	-0.7655	3.152	1.702	0.05683	0.08934	20	0.9869	5.069	24
Missouri	st4	1111	A/U	BPA-1	4.205	98.89	-5.416	-0.6707	11.48	6.219	0.2213	0.286	20	0.8491	17.11	24
Missouri	st4	1111	A/U	OTES-1												20
Missouri	st4	1111	A/U	Nethdrone-2	4.883	104.4	-5.256	-1.637	8.264	3.476	0.1228	0.6254	20	0.906	13.32	24

Appendix D. EPA Evaluation of Good and Bad runs for E2 and NE

Appendix D. EPA Evaluation of Good and Bad runs for E2 and NE

Table D-1. CERI, Ceetox

Table D-2. CERI, University of Missouri

Table D-3. CERI, Lovelace

Table D-4. CERI, Freyberger

Table D-5. CERI, Japan CERI

Table D-6. FWA, Ceetox

Table D-7. FWA, University of Missouri

Table D-8. FWA, Lovelace

Table D-9. FWA, Freyberger

Table D-10. FWA, Japan CERI

Table D-11. FWA, Dietrich

Table D-1 CERI, Ceetox

Files Converted (V39 for FWA, V25k for CERI)	E2 Not accountin g for ligand depletion	E2 Accounti ng for ligand depletion	NE Not accountin g for ligand depletion	NE Accounti ng for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
Subtask I								
hrER (CERI) data entry comp subtask I, run 1 20090207, v25k.xls	A	A	A	A		7284	1/6700	1.09
hrER (CERI) data entry comp subtask I, run 2 20090208, v25k.xls	A	A	A	A		6683	1/6115	1.09
hrER (CERI) data entry comp subtask I, run 3 20090211, v25k.xls	A	A	A	A		6680	1/6427	1.04
Subtask II								
hrER (CERI) data entry comp subtask II, run 1 20090215 v25k.xls	A	A	A	A		6914	1/6380	1.08
hrER (CERI) data entry comp subtask II, run 2 20090218, v25k.xls	U (hill slope= - 0.6916)	A	U	U		5804	1/4969	1.17
hrER (CERI) data entry comp subtask II, run 3 20090221, v25k.xls	A	A	A	A		5965	1/5300	1.13
Subtask III								
hrER (CERI) data entry comp subtask III, run 1 20090228 A, v25k.xls	A	A	U	U		5107	1/4757	1.07
hrER (CERI) data entry comp subtask III, run 1 20090228 B, v25k.xls	A	A	U	U		5107	1/4757	1.07
ER (CERI) data entry comp subtask III, run 2 20090305 A, v25k.xls	A (messy top)	U?	U	U		8173	1/7171	1.14
hrER (CERI) data entry comp subtask III, run 2 20090305 B, v25k.xls	A (messy top) what is dif from 0305A?	U	U	U		8173	1/7171	1.14
hrER (CERI) data entry comp	A	U	A	U		8013	1/7320	1.09

Files Converted (V39 for FWA, V25k for CERI)	E2 Not accountin g for ligand depletion	E2 Accounti ng for ligand depletion	NE Not accountin g for ligand depletion	NE Accounti ng for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
subtask III, run 3 20090310 A, v25k.xls								
hrER (CERI) data entry comp subtask III, run 3 20090310 B, v25k.xls	A	U	A	U		8013	1/7320	1.09
hrER (CERI) data entry comp subtask III, run 4 20090401 A, v25k.xls	A	A	U	U		7645	1/6548	1.17
hrER (CERI) data entry comp subtask III, run 4 20090401 B, v25k.xls	A	A	U	U		7645	1/6548	1.17
hrER (CERI) data entry comp subtask III, run 5 20090415, v25k.xls	A	A	A	U		8280	1/7935	1.04
Subtask IV								
hrER (CERI) data entry comp subtask IV, run 1 20090903 A, v25k.xls	A	U	A	A		8093	1/7553	1.07
hrER (CERI) data entry comp subtask IV, run 1 20090903 B, v25k.xls	A	U	A	A		8093	1/7553	1.07
hrER (CERI) data entry comp subtask IV, run 2 20090905 A, v25k.xls	A	A	A	A		7045	1/6117	1.15
hrER (CERI) data entry comp subtask IV, run 2 20090905 B, v25k.xls	A	A	A	A		7045	1/6117	1.15
hrER (CERI) data entry comp subtask IV, run 3 20090907 A, v25k.xls	A (top high 176)	A	A	A		5444	1/4304	1.26
hrER (CERI) data entry comp subtask IV, run 3 20090907 B, v25k.xls	A	A	A	A		5444	1/4304	1.26

Files Converted (V39 for FWA, V25k for CERI)	E2 Not accountin g for ligand depletion	E2 Accounti ng for ligand depletion	NE Not accountin g for ligand depletion	NE Accounti ng for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
hrER (CERI) data entry comp subtask IV, run 4 20090930 A, v25k.xls	A (slope - 1.760)	U	A (IC50 a bit high)	A		9132	1/8689	1.05
hrER (CERI) data entry comp subtask IV, run 4 2009030 B, v25k.xls	A	U	A(same as above)	A		9132	1/8689	1.05

A = Acceptable

U = Unacceptable

asterisk = reanalyze using buffer control = 100%. A* meant something like "it looks like it will probably be acceptable if buffer control is used as 100%" while U* meant "It's unacceptable now, but may be acceptable if buffer control is used as 100%". Those are not mutually exclusive categories, so they should probably be regarded as equivalent.

Table D-2 CERl, University of Missouri

Files Converted (V39 for FWA, V25k for CERl)		E2 Not accountin g for ligand depletion	E2 Accountin g for ligand depletion	NE Not accountin g for ligand depletion	NE Accountin g for ligand depletion	Overall run (okay to use for test chemica l?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
Subtask I									
hrER (CERl) data entry 4001, v25k 2m.xls		A	A	A	A		6870	7046	
hrER (CERl) data entry 4001 final, v25k.xls		A (slope = - 0.7993)	A	A	A		7228	7201	
hrER (CERl) data entry 4002 final, v25k.xls		A	A	A	A		7712	7107	
hrER (CERl) data entry 4003 final, v25k.xls		A	A	A	A		5173	4931	
hrER (CERl) data entry 4005 final, v25k.xls		A	A	A(slope = - 0.7609)	A		6710	6959	
hrER (CERl) data entry 4006 final, v25k.xls		A	A	A	A		5670	6071	
hrER (CERl) data entry 4007 final, v25k.xls		A	A	A	A		5964	6205	
hrER (CERl) data entry 5003 stds only w2, v25k.xls		A	A	A	A		5595	5654	
hrER (CERl) data entry 5005 stds only w1, v25k.xls		A	A	U? (slope = -0.6034)	A		3626	3542	
hrER (CERl) data entry 5007 stds only, v25k.xls		A	A	A	A		7661	7554	
hrER (CERl) data entry 5010 stds only w2, v25k.xls		A	A	A	A		4165	4094	
Subtask II									
hrER (CERl) data entry 5006, v25g no del, v25k.xls		A	A	A	A		6102	6741	
hrER (CERl) data entry 5008 default, v25k.xls		A (slope - 1.5)	A	A	A		4689	4712	
hrER (CERl) data entry 5009, v25g		A	A	A	A		4622	4715	

Files Converted (V39 for FWA, V25k for CERI)		E2 Not accountin g for ligand depletion	E2 Accountin g for ligand depletion	NE Not accountin g for ligand depletion	NE Accountin g for ligand depletion	Overall run (okay to use for test chemica l?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
no deletions, v25k.xls									
Subtask III									
hrER (CERI) data entry 1-7, 6001 final w2, v25k.xls		A(slope = - 1.542)	A	A? (IC50 a bit low?)	A		5672	5498	
hrER (CERI) data entry 1-7, 6002 final w2, v25k.xls		A	A	A	A		5383	5419	
hrER (CERI) data entry 1-7, 6005 final w2, v25k.xls		A	A	A	A		3511	3283	
hrER (CERI) data entry 1-7, 6006 final w2, v25k.xls		A	A	A	A		3159	3093	
hrER (CERI) data entry 1-7, 6007 final w2, v25k.xls		A	A	A	A		2848	2626	
hrER (CERI) data entry 8-14, 6009 final w2, v25k.xls		A	A	A	A		3060	3255	
hrER (CERI) data entry 8-14, 6009 final b w2, v25k.xls		A	A	A	A		3060	3255	
hrER (CERI) data entry 8-14, 6010 final w2, v25k.xls		A	A	A	A		3086	3560	
hrER (CERI) data entry 8-14, 6011 final w2, v25k.xls		A	A	A	A		2283	2222	
hrER (CERI) data entry, 6502 final w2, v25k.xls		A	A	A	A		6341	6722	
hrER (CERI) data entry, 6503 final w2, v25k.xls		A	A	A	A		6981	6665	
hrER (CERI) data entry, 6504 final w2, v25k.xls		A	A	A	A		3445	3574	
Subtask IV									
hrER (CERI) data entry, 2206 w4b, v25k.xls		A	A	A	A		4406	4465	
hrER (CERI) data entry, 2210 w4b, v25k.xls		A(IC50 = - 9.920)	A	A	U?		7271	7740	

Files Converted (V39 for FWA, V25k for CERI)		E2 Not accountin g for ligand depletion	E2 Accountin g for ligand depletion	NE Not accountin g for ligand depletion	NE Accountin g for ligand depletion	Overall run (okay to use for test chemica l?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
hrER (CERI) data entry, 2211 w4b, v25k.xls		A	A	A	A		4999	5087	
hrER (CERI) data entry, 2301 w4b, v25k.xls		A	A	A	A		4559	5227	
hrER (CERI) data entry, 2302 w4b, v25k.xls		A	A	A	A		5294	5155	
hrER (CERI) data entry, 2305 w4b, v25k.xls		A	A	A	U?		3101	3241	

A = Acceptable, U = Unacceptable

Table D-3 CERl, Lovelace

Files Converted (V39 for FWA, V25k for CERl)	EPA determination	E2 Not accounting for ligand depletion	E2 Accounting for ligand depletion	NE Not accounting for ligand depletion	NE Accounting for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
Subtask I									
hrER (CERl)-comp_06-Jan-09- v25k.xls	OK, try replotting with buffer control?	A*	A	A*	A	A*	3652	5485	66.6%
hrER (CERl)-comp_08-Jan-09- v25k.xls	Bad	U	U	A	U	U	4785	5029	95.1%
hrER (CERl)-comp_13-Jan-09- v25k.xls	OK	A	U	A	U	A	5036	5115	98.5%
hrER (CERl)-comp_16-Jan-09- v25k.xls	OK	A	U	A	U	A	5104	4875	104.7%
hrER (CERl)-comp_31-Dec-08, v25k.xls	Bad	U	U	U	U	U	9548	6065	157.4%
Subtask II									
hrER (CERl)-compST2_27-Feb-09, v25k.xls	OK, compare to replot with buffer control?	A*	A	A*	U	A*	2659	3732	71.2%
hrER (CERl)-compST2_05-Mar-09, v25k.xls	PRISM file missing	A*	A	U	A*	U	2331	3711	62.8%
hrER(CERl)comp_27-Mar-09, v25k.xls	OK, compare to replot with buffer control?	A*	A	A*	A*	A*	2316	3121	74.2%
hrER (CERl)-compST2_04-May-09- v25k.xls	OK	A	A	A	U	A	8540	9532	89.6%
hrER (CERl)-compST2_05-May-09- v25k.xls	OK – I don't see a need to redo with buffer... top is below 100%	A*	A*	A*	U*	A*	10723	8983	119.4%
hrER (CERl)-compST2_06-May-09- v25k.xls	OK	A	A	A	U	A	7729	10255	75.4%
hrER (CERl)-compST2_07-May-09-	Bad –redo with	U*	A	U*	U*	U*	2413	10683	22.6%

Files Converted (V39 for FWA, V25k for CERI)	EPA determination	E2 Not accounting for ligand depletion	E2 Accounting for ligand depletion	NE Not accounting for ligand depletion	NE Accounting for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
v25k.xls	buffer?								
hrER (CERI)-compST2_08-May-09- v25k.xls	OK (IC50 off)	A	A	A	A	A	8173	8895	91.9%
hrER (CERI)-compST2_26-Feb-09, v25k.xls	OK	A	U	A	U	A	4143	4508	91.9%
hrER (CERI)-compST2_03-Mar-09, v25k.xls	Bad	U	U	U	U	U	3273	3521	93.0%
hrER (CERI)-compST2_11-Mar-09, v25k.xls	Bad – dilution error at 8.5 ? buffer not the issue here	U	U	U	U	U	2428	2017	120.4%
hrER (CERI)-compST2_17-Mar-09, v25k.xls	Exclude 600% value as outlier ? Buffer is not the issue here...	U	U	A	U	U	3668	4657	78.8%
Subtask III									
hrER (CERI)-compST3_01-Jun-09- v25k.xls	OK	A	A	A	U	A	8837	9196	96.1%
hrER (CERI)-compST3_04-Jun-09- v25k.xls	OK	A	A	A	A	A	10336	11344	91.1%
hrER (CERI)-compST3_08-Jun-09- v25k.xls	OK (LD = 72.55%!!)	A	U	A	U	A	12364	12737	97.1%
hrER (CERI)-compST3_11-Jun-09- v25k.xls	OK, but ugly	A	A	A	U	A	7457	8787	84.9%
hrER (CERI)-compST3_12-Jun-09- v25k.xls	Replot with buffer control	A*	A	A*	U	A*	4327	10572	40.9%
hrER (CERI)-compST3_15-Jun-09- v25k.xls	OK	A	A	A	U	A	8617	8997	95.8%
hrER (CERI)-compST3_10-June-09- v25k.xls	OK	A	A	A	U	A	no file	no file	
hrER (CERI)-compST3_01-July-09- v25k.xls	Unacceptable	U	A	A	U	U	6088	7664	79.4%

Files Converted (V39 for FWA, V25k for CERI)	EPA determination	E2 Not accounting for ligand depletion	E2 Accounting for ligand depletion	NE Not accounting for ligand depletion	NE Accounting for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
hrER (CERI)-compST3_10-July-09-v25k.xls	OK (LD=57.22%)	A	A	A	U	A	9779	9427	103.7%
Subtask 12									
hrER (CERI)-ABC Coded-Additional Dilution CERI only_14-May-10-v25k.xls	Replot with buffer control	U	U	U*		U	5207	7837	66.4%
hrER (CERI)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10a-v25k.xls	Replot? Really bad	U*	U*	U*	U*	U*	3241	7837	41.4%
hrER (CERI)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10b(sovl ctol) -v25k.xls	Replot? Really bad Excel file missing	U	U	U	U	U			
hrER (CERI)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10 JCS 10-15-10c(FWA solv ctl) -v25k.xls	Replot? Really bad Excel file missing	U	U	U	U	U			
hrER (CERI)-ABC Coded-Additional Dilution+FWA Char A only_14-May-10-v25k.xls	Try replot	U*	U*	U*	U*	U*	3241	7837	41.4%
hrER (CERI)-ABC Coded-Additional Dilution+FWA Char+CERI_14-May-10-v25k.xls	Try replot	U	U	U		U			
hrER (CERI)-ABC Coded-Additional Dilution+FWA Char_14-May-10-v25k.xls	Try replot	U	U	U U	U	U	3241??	3241??	
hrER (CERI)-ABC Coded-Additional Dilution_14-May-10 CERI charcoal data with CERI SOLVENT control norm-v25k.xls	Try replot	U*	A*	U*	A*	U*	5207	7837	66.4%
hrER (CERI)-ABC Coded-Additional Dilution_14-May-10-v25k.xls	Try replot	U*	A*	U*	A*	U*	5207	7837	66.4%
hrER (CERI)-A dil variations_04Dec-09-v25k.xls	OK, but ugly	U	U	U	U	U	7359	9712	75.8%
hrER (CERI)-ABC Coded_08-Dec-09-v25k.xls	Try replot	UA*	U	UA*	U	U	7564	9931	76.2%
hrER (CERI)-ABC Coded_12-Nov-09-v25k.xls	OK	A	U	A	U	A			

Files Converted (V39 for FWA, V25k for CERI)	EPA determination	E2 Not accounting for ligand depletion	E2 Accounting for ligand depletion	NE Not accounting for ligand depletion	NE Accounting for ligand depletion	Overall run (okay to use for test chemical?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
hrER (CERI)-ABC Coded_20-Oct-09 JCS-v25k.xls	Try replot	U	U	U	U*	U	7593	9712	78.2%
hrER (CERI)-ABC Coded_23-Sep-09-v25k.xls	OK	A	U	A	U	A			
hrER (CERI)-ABC Coded_27-Oct-09-v25k.xls	Try replot	A	A	U	U	U	5928	6913	85.8%
hrER (CERI)-ABC Coded_29-Jan-10-v25k.xls	OK	A	A	U	U	U	6476	8097	80.0%
hrER (CERI)-ABC Coded_29-April-10-v25k.xls	OK	A	A	U	U	U			
hrER (CERI)-ABC Coded_7-Apr-10 #1 v25k.xls,	OK	A	U	A	U	A			
hrER (CERI)-ABC Coded_7-Apr-10 #2 v25k.xls	OK	A	U	A	U	A			
hrER (CERI)-ABC Coded_7-Apr-10 #3+triton v25k.xls,	OK (LD=58.46%!!)	A	U	A	U	A			66.6%

A = Acceptable

U = Unacceptable

asterisk = reanalyze using buffer control = 100%. Note: I was inconsistent in using A* and U*. A* meant something like “it looks like it will probably be acceptable if buffer control is used as 100%” while U* meant “It’s unacceptable now, but may be acceptable if buffer control is used as 100%”. Those are not mutually exclusive categories, so they should probably be regarded as equivalent.

Table D-4 CERl, Freyberger

Files Converted		E2 Not accounting for ligand depletion	E2 Accounting for ligand depletion	NE Not accounting for ligand depletion	NE Accounting for ligand depletion	Overall run (okay to use for test chemical?)
Subtask II						
hrER (CERl) data entry Competitiv A, v25g.xls		U	U	A (slope not great = - 0.8769)	A	
hrER (CERl) data entry Competitiv B, v25g.xls		A	A	A	A	
hrER (CERl) data entry Competitiv C, v25g.xls		A	A	A	A	
hrER (CERl) data entry Competitiv D, v25g.xls		A	A	A	A	
hrER (CERl) data entry Competitiv E, v25g.xls		A	A	A	A	
hrER (CERl) data entry Competitiv F, v25g.xls		A	A	A	A	
hrER (CERl) data entry Competitiv G, v25g.xls		A (high LD and slope= 61.3% and -1.59)	A	A	A	
Subtask III						
hrER (CERl) data entry CODE A1, v25g.xls		A	A	U (remove outlier?)	U	
Files Converted		E2 Not accounting for ligand depletion	E2 Accounting for ligand depletion	NE Not accounting for ligand depletion	NE Accounting for ligand depletion	Overall run (okay to use for test chemical?)
hrER (CERl) data entry CODE A2, v25g.xls		A	A	A	A	
hrER (CERl) data entry CODE A3, v25g.xls		A	A	A	A	
hrER (CERl) data entry CODE B1,		A	A	A	A	

v25g.xls						
hrER (CERI) data entry CODE B2, v25g.xls		A	A	A	A	
hrER (CERI) data entry CODE B3, v25g.xls		A	A	A	A	
hrER (CERI) data entry CODE C1, v25g.xls		A	A	A	A	
hrER (CERI) data entry CODE C2, v25g.xls		A	A	A	A	
hrER (CERI) data entry CODE C3, v25g.xls		A	A	A	A	

A = Acceptable

U = Unacceptable

asterisk = reanalyze using buffer control = 100%. Note: I was inconsistent in using A* and U*. A* meant something like “it looks like it will probably be acceptable if buffer control is used as 100%” while U* meant “It’s unacceptable now, but may be acceptable if buffer control is used as 100%”. Those are not mutually exclusive categories, so they should probably be regarded as equivalent.

Table D-5 CERI, Japan CERI

Files Converted (V39 for FWA, V25k for CERI)		E2 Not accountin g for ligand depletion	E2 Accountin g for ligand depletion	NE Not accountin g for ligand depletion	NE Accountin g for ligand depletion	Overall run (okay to use for test chemica l?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
Subtask I									
hrER (CERI)competitive091224_01, v25k.xls		A	A	A	A		9855	10171	
hrER (CERI)competitive100107_02, v25k.xls		A	A	A	A		10573	10787	
hrER (CERI)competitive100108_03, v25k.xls		A	A	A	A		10593	10568	
Subtask II									
hrER (CERI)competitive100119_01, v25k.xls		A	A	A	A		9854	8817	
hrER (CERI)competitive100126_02, v25k.xls		A	A	A	A		9985	9683	
hrER (CERI)competitive100129_03, v25k.xls		A	A	A	A		10370	10635	
Subtask III									
hrER (CERI)competitive100203_01, v25k.xls		A	A	A (top = 139)	A		9972	8117	
hrER (CERI)competitive100208_02, v25k.xls		A	A	A (top = 134)	A		9680	8341	
hrER (CERI)competitive100215_03, v25k.xls		A	A	A	A		10453	10105	
hrER (CERI)competitive100223_04, v25k.xls		A	A	A	A		10623	10771	
hrER (CERI)competitive100224_05, v25k.xls		A	A	A	A		11091	10061	
hrER (CERI)competitive100225_06, v25k.xls		A	A	A	A		10529	10770	
hrER (CERI)competitive100226_07, v25k.xls		A	A	A	A		10214	10185	

Files Converted (V39 for FWA, V25k for CERI)		E2 Not accountin g for ligand depletion	E2 Accountin g for ligand depletion	NE Not accountin g for ligand depletion	NE Accountin g for ligand depletion	Overall run (okay to use for test chemica l?)	Buffer dpms	Solvent dpms	Buffer- to- Solvent ratio
hrER (CERI)competitive100301_08, v25k.xls		A	A	A	A		10909	11494	
hrER (CERI)competitive100303_09, v25k.xls		A	A	A	A		9829	9219	
hrER (CERI)competitive100305_10, v25k.xls		A	A	A	A		9656	10041	

A = Acceptable, U = Unacceptable

Table D-6 FWA, Ceetox

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) data entry 20081123 run 2, v39.xls	20081123	A	U	A	U	12810	11659	110%	91%
hrER (FWA) data entry 20081124 run 3, v39.xls	20081124	U	A	A	A	8762	7426	118%	85%
hrER (FWA) data entry 20081218 run 4, v39.xls	20081128	A	A	A	A	10122	9974	101%	99%
hrER (FWA) L2, sub II data entry 20090124 run 1, v39.xls	20090124	A	U	A	U	6154	4138	149%	67%
hrER (FWA) L2, sub II data entry 20090128 run 2, v39.xls	20090128	U	A	U	U	9822	8854	111%	90%
hrER (FWA) L2, sub II data entry 20090202 run 3, v39.xls	20090202	A	U	A	U	11802	10047	117%	85%
hrER (FWA) L2, sub II data entry 20090213 run 3b-, v39.xls	20090213_b	A	U	U	U	6395	5970	107%	93%
hrER (FWA) L2, sub II data entry 20090223 run 4, v39.xls	20090223	A	A	A	A	3472	3090	112%	89%
hrER (FWA) L2, sub II data entry 20090307 run 5, v39.xls	20090307	A	A	A	A	6554	6618	99%	101%

hrER (FWA) L2, sub II data entry 20090326 run 6, v39.xls	20090326	A	A	A	A	7377	6598	112%	89%
Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) L2, sub II data entry 20090213 run 4-2, v39TEST.xls	20090213TEST_2	A	U	U	U	6395	5970		
hrER (FWA) L2, sub II data entry 20090213 run 4, v39TEST.xls	20090213 TEST	A	U	U	U	6372	5970		
hrER (FWA) L2, sub II data entry 20090223 run 5, v39 GOOD run4.xls	20090223GOOD	A	U	A	A	3472	3090		
hrER (FWA) L2, sub III data entry 20090418 run 1 DMSO.xls	20090418 DMSO	A	A	A	A	7251	7534	96%	104%
hrER (FWA) L2, sub III data entry 20090418 run 1.xls	20090418	A	A	A	A	6744	5326	127%	79%
hrER (FWA) L2, sub III data entry 20090418 run 1B.xls	20090418B	A	A	A	A	6744	5326	127%	79%
hrER (FWA) L2, sub III data entry 20090426 run 2.xls	20090426	A	A	U	U	7186	7138	101%	99%
hrER (FWA) L2, sub III data entry 20090426 run 2B.xls	20090426B	A	A	U	U	7186	7138	101%	99%

hrER (FWA) L2, sub III data entry 20090505 run 3 chem 14.xls	20090505chem14	A	A	A	A	8691	7215	120%	83%
hrER (FWA) L2, sub III data entry 20090505 run 3.xls	20090505	A	A	A	A	8691	7215	120%	83%
Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) L2, sub III data entry 20090507 run 2 DMSO.xls	20090505 DMSO	A	A	A	A	7139	6172	116%	86%
hrER (FWA) L2, sub III data entry 20090514 run 3 DMSO.xls	20090514 DMSO	A	A	A	A	8190	7294	112%	89%
hrER (FWA) L2, sub IV data entry 20090911 run 1 A v39.xls	20090911A	A	U	A	U	8351	7966	105%	95%
hrER (FWA) L2, sub IV data entry 20090911 run 1 B v39.xls	20090911B	A	U	A	U	8351	7966	105%	95%
hrER (FWA) L2, sub IV data entry 20090914 run 2 A v39 .xls	20090914	A	A	A	A	7489	7248	103%	97%
hrER (FWA) L2, sub IV data entry 20090914 run 2 B v39 .xls	20090914B	A	A	A	A	7489	7248	103%	97%

hrER (FWA) L2, sub IV data entry 20090917 run 3 A v39 .xls	20090917A	A	A	A	A	7215	6388	113%	89%
hrER (FWA) L2, sub IV data entry 20090917 run 3 B v39 .xls	20090917B	A	A	A	A	7215	6388	113%	89%

Table D-7 FWA, University of Missouri

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) data entry 3005 final, v39mod.xls	3005	U	U	A	U	11201	11629	96%	104%
hrER (FWA) data entry 3006 final, v39mod.xls	3006	U	U	A	U	11692	10378	113%	89%
hrER (FWA) data entry 3008 final, v39mod.xls	3008	U	U	A	U	9989	9923	101%	99%
hrER (FWA) data entry 7003 final, v39mod.xls	7003	A	U	A	U	6473	6753	96%	104%
hrER (FWA) data entry 7004, v39mod.xls	7004	A	A	A	U	6051	6710	90%	111%
hrER (FWA) data entry 7005 final, v39mod.xls	7005	A	A	A	U	6323	6619	96%	105%
hrER (FWA) data entry 7006 final, v39mod.xls	7006	A	A	A	A	7974	8088	99%	101%
hrER (FWA) data entry 7007 final, v39mod.xls	7007	A	A	A	A	7546	7565	100%	100%
hrER (FWA) data entry 9003 final2, v39mod.xls	9003	A	U	A	U	14778	13684	108%	93%
hrER (FWA) data entry 9004 final3 , v39mod.xls	9004	A	U	A	U	15247	13820	110%	91%
hrER (FWA) data entry 9005 final2, v39mod.xls	9005	A	U	A	U	14112	11310	125%	80%
hrER (FWA) data entry 9007 final2, v39mod.xls	9007	A	U	A	U	15410	15556	99%	101%
hrER (FWA) data entry 8001 final2, v39mod revised.xls	8001	U*	U*	U	U	12782	9955	128%	78%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) data entry 8002 final2, v39mod revised.xls	8002	U*	U*	U	U	13669	10375	132%	76%
hrER (FWA) data entry 8003 final2 w4, v39mod.xls	8003	A	U*	A	U	11637	11818	98%	102%
hrER (FWA) data entry 8004 final2, v39mod.xls	8004	A	U	A	U	10888	11118	98%	102%
hrER (FWA) data entry 8005 final, v39mod.xls	8005	A	U	A	U	12247	11576	106%	95%
hrER (FWA) data entry 8101 final2 w6, v39mod.xls	8101	A	U	A	U	13383	13732	97%	103%
hrER (FWA) data entry 8102 final2 w6, v39mod.xls	8102	A	A	A	A	14034	13189	106%	94%
hrER (FWA) data entry 8107 final2 w6, v39mod.xls	8107	A	A	U	U	10591	10389	102%	98%
hrER (FWA) data entry 8108 final2 w6, v39mod.xls	8108	A	A	U	A	9654	10226	94%	106%
hrER (FWA) data entry 8201 final2 w6, v39mod.xls	8201DMSO	A	A	A	A	9428	8848	107%	94%
hrER (FWA) data entry 8202 final2 w6, v39mod.xls	8202 DMSO	U*	A	U*	U*	9194	7570	121%	82%
hrER (FWA) data entry 8203 final2 w6, v39mod.xls	8203 DMSO	A	U	A	U	9186	8833	104%	96%
hrER (FWA) data entry 1101 w6, v39mod.xls	1101	A	U	A	U	12989	12344	105%	95%
hrER (FWA) data entry 1102 w6, v39mod.xls	1102	A	A	A	A	12689	12732	100%	100%
hrER (FWA) data entry 1103 w6, v39mod.xls	1103	A	U	A	U	19536	17073	114%	87%
hrER (FWA) data entry 1104 w6, v39mod.xls	1104	A	U	A	U	17551	16816	104%	96%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) data entry 1105 w6, v39mod.xls	1105	U	A	U	A	19101	18212	105%	95%
hrER (FWA) data entry 1106 w6, v39mod.xls	1106	A	U	A	U	12322	11944	103%	97%
hrER (FWA) data entry 1107 w6, v39mod.xls	1107	A	U	A	U	11539	11629	99%	101%
hrER (FWA) data entry 1111 w6, v39mod.xls	1111	A	U	U	U	10271	9752	105%	95%
hrER (FWA) data entry 1108 w6, v39mod.xls	1108	A	U	A	U	13283	12831	104%	97%
hrER (FWA) data entry 1109 w6, v39mod.xls	1109	A	U	A	U	14091	12775	110%	91%
hrER (FWA) data entry 1110 w6, v39mod.xls	1110	U	U	A	A	12833	9622	133%	75%

Table D-8 FWA, Lovelace

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) comp_03Dec08, v39.xls	3-Dec-08	U*	U*	U*	U*	5789	7707	75%	133%
hrER (FWA) comp_09Dec08, v39.xls	9-Dec-08	U*	U*	U*	U*	5789	7707	75%	133%
hrER (FWA) comp_13Dec08, v39.xls	13-Dec-08	A	A	U*	A	5882	8991	65%	153%
hrER (FWA) comp_16Dec08, v39.xls	16-Dec-08	U*	U*	A	U	6146	9295	66%	151%
hrER (FWA) comp_19Dec08, v39.xls	19-Dec-08	A	A	no graph or table	no graph or table	4073	4378	93%	107%
hrER (FWA) comp_27-Jan-09.xls	27-Jan-09	U	U	U*	U	7663	7531	102%	98%
G2 hrER (FWA) compST2 DMSO_14-Feb-09.xls	14Feb09DMSO	U*	U*	U*	U*	5609	7028	80%	125%
G2 hrER (FWA) compST2 DMSO_17-Feb-09.xls	17Feb09DMSO	A	U	A	U	10342	10457	99%	101%
G2 hrER (FWA) compST2 DMSO_19-Feb-09.xls	19Feb09DMSO	U*	U*	U*	U*	7032	9075	77%	129%
hrER (FWA) compST2 EtOH_06-Feb-09 corrected.xls	06Feb09EtOH	U	A	U	A	4236	4889	87%	115%
hrER (FWA) compST2 EtOH_09-Feb-09 corrected.xls	09Feb09EtOH	U	A	U	A	8743	8390	104%	96%
hrER (FWA) compST2 EtOH_24-Feb-09 corrected.xls	24Feb09EtOH	A	A	A	A	9178	10863	84%	118%
hrER (FWA) compST2 EtOH_16-April-09 corrected.xls	16April09EtOH	A	U	U*	U*	8078	10142	80%	126%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) compST2 EtOH_24-April-09 corrected.xls	24April09EtOH	U*	U*	U*	U*	5134	5794	89%	113%
hrER (FWA) compST2 EtOH_28-April-09 corrected.xls	28April09EtOH	U	U	U	U	7612	8673	88%	114%
hrER (FWA) compST2 EtOH_13-May-09 corrected.xls	13May09EtOH	U	U	U	U	5666	6431	88%	114%
hrER (FWA) compST2 EtOH_28-May-09 corrected.xls	28May09EtOH	U	U	U	U	10898	11672	93%	107%
hrER (FWA) compST2 DMSO_30-Jan-09 ERR.xls	30Jan09DMSO	U	U	U	A	7342	6710	109%	91%
hrER (FWA) compST2 EtOH 12-Feb-09.xls	12Feb09EtOH	U	U	U	U	6612	5243	126%	79%
hrER (FWA) compST2 EtOH_01-May-09 corrected.xls	01May09EtOH	A	U	A	U	8142	8596	95%	106%
hrER (FWA) compST2 EtOH_10-April-09 ERR.xls	10April09EtOH	U*	U*	U	U	2707	6803	40%	251%
hrER (FWA) compST2 EtOH_21-April-09 ERR.xls	21April09EtOH	U	U	A	U	9908	12002	83%	121%
hrER (FWA) compST3-coded EtOH 10-Mar-09 CORRECTED CONC.xls	10Mar09EtOH	U	A	U	U	3375	4458	76%	132%
hrER (FWA) compST3-coded EtOH 13-Mar-09 CORRECTED CONC.xls	13Mar09EtOH	A	A	U	A	6686	6999	96%	105%

hrER (FWA) compST3-coded EtOH 24-Mar-09 CORRECTED CONC.xls	24Mar09EtOH	U	U	U	U	10119	10287	98%	102%
Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) compST3-coded EtOH 31-Mar-09 CORRECTED CONC.xls	31Mar09EtOH	U*	U*	U*	U*	3370	10356	33%	307%
hrER (FWA) compST3-coded EtOH 17-Jun-09.xls	17Jun09EtOH	U*	U*	U*	U*	8910	11788	76%	132%
hrER (FWA) compST3-coded EtOH 23-Jun-09.xls	23Jun09EtOH	U*	U*	U*	U*	7954	11077	72%	139%
hrER (FWA) compST3-coded EtOH 25-Jun-09.xls	25Jun09EtOH	U*	U*	U*	U*	9831	13144	75%	134%
hrER (FWA) compST3-coded EtOH 30-Jun-09.xls	30Jun09EtOH	A	U	A	U	11230	11329	99%	101%
hrER (FWA) compST3-coded EtOH 20-Mar-09 ERR.xls	20Mar09EtOH	U	U	U	U	6766	7728	88%	114%
hrER (FWA) compST3-coded EtOH 19-Jun-09.xls	19Jun09EtOH	A	A	A	A	10312	10486	98%	102%
hrER (FWA) compST3-coded DMSO 03-May-09 CORRECTED CONC.xls	03May09DMSO	U	U	U*	U*	7439	8764	85%	118%
hrER (FWA) compST3-coded DMSO 03-May-09-2 CORRECTED CONC.xls	03May09DMSO_2	U	U	U*	U*	8105	7780	104%	96%
hrER (FWA) compST3-coded DMSO 03-May-09-3 CORRECTED CONC.xls	03May09DMSO_3	U	A	U*	A	8780	9817	89%	112%
hrER (FWA) comp-ABC coded EtOH 06-Oct-09.xls	06Oct09 EtOH	A	U	A	U	10159	11170	91%	110%

hrER (FWA) comp-ABC coded EtOH 09-Oct-09.xls	09Oct09 EtOH	U	U	A	A	10546	11025	96%	105%
hrER (FWA) comp-ABC coded EtOH 14-Oct-09.xls	14Oct09 EtOH	U	U	A	U	8167	8868	92%	109%
Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) comp-ABC coded EtOH 25-Sep-09.xls	25Sep09 EtOH	U	U	A	U	13090	12376	106%	95%
hrER (FWA) comp-ABC + 8,9,11, 12, 14 coded EtOH 09-July-10 using BUFFER control.xls	09July10 EtOH_Buffer	U	U	A	U	15850	15850	100%	100%
hrER (FWA) comp-ABC + 8,9,11, 12, 14 coded EtOH 09-July-10.xls	09July10 EtOH	U*	U*	U*	U*	10141	15850	64%	156%
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10.xls	19Aug10EtOH	U*	U*	U*	U*	5093	14078	36%	276%
hrER (FWA) comp-ABC + 8,9,11, 12 coded EtOH 19-Aug-10 using BUFFER control.xls	19Aug10EtOH_Buffer	A	U	U*	U	14078	14078	100%	100%

Table D-9 FWA, Freyberger

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER_FWA_Competitiv A, v39mod.xls	A	A	U	A	U	11851	12016	99%	101%
hrER_FWA_Competitiv B, v39mod.xls	B	A	U	A	U	10889	10503	104%	96%
hrER_FWA_Competitiv C, v39mod.xls	C	U	U	U	U	11377	9447	120%	83%
hrER_FWA_Competitiv D, v39mod.xls	D	A	U	A	U	13681	13585	101%	99%
hrER_FWA_Competitiv E (DMSO) , v39mod.xls	E	A	U	A	U	10288	9458	109%	92%
hrER_FWA_Competitiv F (DMSO) , v39mod.xls	F	A	U	A	U	10825	9159	118%	85%
hrER_FWA_Competitiv G (DMSO) , v39mod.xls	G	A	U	A	U	13195	11403	116%	86%
hrER_FWA_Code A1, v39mod.xls	Code A1	A	U	A	U	11708	10545	111%	90%
hrER_FWA_Code A2, v39mod.xls	Code A2	A	U	U	U	10615	11170	95%	105%
hrER_FWA_Code A, v39mod.xls	Code A	A	U	A	U	12147	12380	98%	102%
hrER_FWA_Code AB, v39mod.xls	Code AB	A	U	A	U	10949	11201	98%	102%
hrER_FWA_Code B1, v39mod.xls	Code B1	A	U	U	U	14686	1903	772%	13%
hrER_FWA_Code B2, v39mod.xls	Code B2	A	U	A	U	14774	13759	107%	93%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER_FWA_Code B, v39mod.xls	Code B	A	U	A	U	12977	12604	103%	97%

Table D-10 FWA, Japan CERI

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA) _01_20090113, v39.xlsx	20090113	A	U	A	U	19390	18447	105%	95%
hrER (FWA)_02_ 20090121, v39.xlsx	20090121	A	U	A	U	18495	15171	122%	82%
hrER (FWA)_03_ 20090128, v39.xlsx	20090128	A	U	A	U	19554	18922	103%	97%
hrER (FWA)_01_20090422, v39.xlsx	20090422	A	U	A	U	19690	19090	103%	97%
hrER (FWA)_02_20090427, v39.xlsx	20090427	A	U	A	U	18343	18130	101%	99%
hrER (FWA)_03_20090430, v39.xlsx	20090430	A	U	A	U	18736	17574	107%	94%
hrER (FWA) 0th- 091104-Task3, v39.xlsx	91104	U	U	U	U	13252	14390	92%	109%
hrER (FWA)_01_091021- Task3, v39.xlsx	91021	A	U	A	U	18466	17686	104%	96%
hrER (FWA)_02_091026- Task3, v39.xlsx	91026	U	U	A	U	17019	16008	106%	94%
hrER (FWA)_03_091105- Task3, v39.xlsx	91105	A	U	A	U	17981	17218	104%	96%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
hrER (FWA)_04_091109- Task3, v39.xlsx	91109	A	U	A	U	16138	14972	108%	93%
hrER (FWA)_05_091110- Task3, v39.xlsx	91110	A	U	A	U	11930	12350	97%	104%
hrER (FWA)_06_091111- Task3, v39.xlsx	91111	A	U	A	U	13546	12943	105%	96%
hrER (FWA)_07_091112- Task3, v39.xlsx	91112	A	U	A	U	13022	13202	99%	101%
hrER (FWA)_08_091116- Task3, v39.xlsx	91116	A	U	A	U	16634	16324	102%	98%
hrER (FWA)_09_091117- Task3, v39.xlsx	91117	A	A	A	U	10442	10539	99%	101%
hrER (FWA)_10_091118- Task3, v39.xlsx	91118	A	U	A	U	12270	12488	98%	102%
hrER (FWA)_11_091119- Task3, v39.xlsx	91119	A	A	A	U	10884	10566	103%	97%

Table D-11 FWA, Dietrich

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
CompetitionBinding-Assay03_Addendum_011107AHH, v39mod.xlsx	Assay03	A	A	A	U	2416	2657	91%	110%
	Assay03								
CompetitionBinding-Assay02_Addendum_011107AHH, v39mod.xlsx	Assay02	U*	U*	U*	U	2328	2974	78%	128%
	Assay02								
CompetitionBinding-Assay01_Addendum_011107AHH, v39mod.xlsx	Assay01	U	U	U*	U*	1481	2404	62%	162%
	Assay01								
	Assay04								
CompetitionBinding-Assay04_060508AHH_template, v39mod.xlsx	Assay04	A	A	A	U	2338	2520	93%	108%
13b_CompetitionBinding-Assay16(Task II part)_170608AHH_temp~, v39mod.xlsx	Assay16	A	A	A	U	4450	4739	94%	106%
12b_CompetitionBinding-Assay15(Task II part)_130608AHH_temp~, v39mod.xlsx	Assay15	U	A	A	U	4052	4682	87%	116%
03b_CompetitionBinding-Assay06_290408AHH_template, v39mod.xlsx	Assay06	A	A	A	U	5824	5390	108%	93%
02b_CompetitionBinding-Assay05_170408AHH_template, v39mod.xlsx	Assay05	A	A	A	U	4904	4957	99%	101%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
13b_CompetitionBinding-Assay16(Task III part)_170608AHH_tem~, v39mod.xlsx	Assay16 (III)					4450	4739	94%	106%
12b_CompetitionBinding-Assay15(Task III part)_130608AHH_tem~, v39mod.xlsx	Assay15 (III)					4052	4682	87%	116%
11b_CompetitionBinding-Assay14(Part2)_100608AHH_template, v39mod.xlsx	Assay14_2	U	U	A	U	4130	3893	106%	94%
11b_CompetitionBinding-Assay14(Part1)_100608AHH_template, v39mod.xlsx	Assay14_1					4130	3893	106%	94%
10b_CompetitionBinding-Assay13_090608AHH_template, v39mod.xlsx	Assay13	A	A	A	U	5278	5075	104%	96%
10b_CompetitionBinding-Assay13(Part2)_090608AHH_template, v39mod.xlsx	Assay13_2					5278	5075	104%	96%
09b_CompetitionBinding-Assay12(Part2)_280508AHH_template, v39mod.xlsx	Assay12_2	U	U	A	U	5266	4725	111%	90%
09b_CompetitionBinding-Assay12(Part1)_280508AHH_template, v39mod.xlsx	Assay12_1					5266	4725	111%	90%
08b_CompetitionBinding-Assay11_270508AHH_template, v39mod.xlsx	Assay11	A	A	A	U	5343	5710	94%	107%
07b_CompetitionBinding-Assay10(Part2)_210508AHH_template, v39mod.xlsx	Assay10_2	A	A	U	U	5183	5512	94%	106%

Files Converted	Tast Run ID	Not accounting for ligand depletion	Accounting for ligand depletion	Not accounting for ligand depletion	Accounting for ligand depletion	Solvent control (dpm)	Buffer control (dpm)	Solvent control dpm/buffer control dpm, as percent	Buffer control dpm/solvent control dpm, as percent
07b_CompetitionBinding-Assay10(Part1)_210508AHH_template, v39mod.xlsx	Assay10_1					5183	5512	94%	106%
06b_CompetitionBinding-Assay09_200508AHH_template, v39mod.xlsx	Assay09	A	A	A	U	6433	5939	108%	92%
05b_CompetitionBinding-Assay08_140508AHH_template, v39mod.xlsx	Assay08	A	A	U	U	6242	5594	112%	90%
04b_CompetitionBinding-Assay07_050508AHH_template, v39mod.xlsx	Assay07	U	U	U	U	5313	4538	117%	85%

Appendix E. PRISM Fit Parameter Estimates for E2 and NE and Tolerance Interval Screening

Appendix E. PRISM Fit Parameter Estimates for E2 and NE and Tolerance Interval Screening

In the following tables, the estimates for top, bottom, slope, or logRBA for each run of estradiol and norethynodrel as standards are listed, along with the tolerance intervals for that parameter. The status column shows whether the estimate falls above or below the tolerance interval. If the cell is blank, the estimate falls within the tolerance interval. Tolerance intervals were calculated to contain at least 80% of test runs with 95% confidence for the parameter using the results from acceptable test runs. See Section 5 for detail discussion.

The runs are separated into acceptable vs. unacceptable runs so that values from acceptable runs can be distinguished from values from unacceptable runs when plotted on the the same plot.

CERI protocol

Table E-1. CERI Assay, Parameter Estimates for the Acceptable E2 Runs and the Status of Tolerance Interval Screening

Table E-2. CERI Assay, Parameter Estimates for the Unacceptable E2 Runs and the Status of Tolerance Interval Screening

Table E-3. CERI Assay, Parameter Estimates for the Acceptable NE Runs and the Status of Tolerance Interval Screening

Table E-4. CERI Assay, Parameter Estimates for the Unacceptable E2 Runs and the Status of Tolerance Interval Screening

Table E-5. CERI Assay, Parameter Estimates for Log₁₀RBA for the Acceptable E2 and NE Runs and the Status of Tolerance Interval Screening.

Table E-6. CERI Assay, Parameter Estimates for Log₁₀RBA for the Unacceptable E2 or NE Runs and the Status of Tolerance Interval Screening.

FWA protocol

Table E-7. FWA Parameter Estimates for the Acceptable E2 Runs and the Status of Tolerance Interval Screening.

Table E-8. FWA Assay, Parameter Estimates for the Unacceptable E2 Runs and the Status of Tolerance Interval Screening.

Table E-9. FWA Assay, Parameter Estimates for the Acceptable NE Runs and the Status of Tolerance Interval Screening.

Table E-10. FWA Assay, Parameter Estimates for the Unacceptable NE Runs and the Status of Tolerance Interval Screening.

Table E-11. FWA Assay, Parameter Estimates for the $\text{Log}_{10}\text{RBA}$ for the Acceptable E2 and NE Runs and the Status of Tolerance Interval Screening.

Table E-12. FWA Assay, Parameter Estimates for the $\text{Log}_{10}\text{RBA}$ for the Unacceptable E2 or NE Runs and the Status of Tolerance Interval Screening.

Table E-1. CERl Assay, Parameter Estimates for the Acceptable E2 Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st1	20090207	A	E2	top	107	2.859	107.8325	4.055089	56.33677	159.3281	
Ceetox	st1	20090207	A	E2	bottom	2.843	2.364	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st1	20090207	A	E2	hillslope	-1.177	0.1329	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st1	20090207	A	E2	Syx	5.779		4.934565	1.301243		18.60151	
Ceetox	st1	20090208	A	E2	top	101.4	3.029	107.8325	4.055089	56.33677	159.3281	
Ceetox	st1	20090208	A	E2	bottom	2.848	2.584	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st1	20090208	A	E2	hillslope	-1.163	0.1492	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st1	20090208	A	E2	Syx	6.22		4.934565	1.301243		18.60151	
Ceetox	st1	20090211	A	E2	top	109.5	2.941	107.8325	4.055089	56.33677	159.3281	
Ceetox	st1	20090211	A	E2	bottom	3.411	2.519	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st1	20090211	A	E2	hillslope	-1.239	0.1478	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st1	20090211	A	E2	Syx	6.215		4.934565	1.301243		18.60151	
Ceetox	st2	20090215	A	E2	top	110.9	2.77	107.8325	4.055089	56.33677	159.3281	
Ceetox	st2	20090215	A	E2	bottom	2.454	2.35	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st2	20090215	A	E2	hillslope	-1.183	0.1266	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st2	20090215	A	E2	Syx	5.709		4.934565	1.301243		18.60151	
Ceetox	st2	20090221	A	E2	top	115.1	3.82	107.8325	4.055089	56.33677	159.3281	
Ceetox	st2	20090221	A	E2	bottom	1.277	3.197	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st2	20090221	A	E2	hillslope	-1.091	0.147	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st2	20090221	A	E2	Syx	7.529		4.934565	1.301243		18.60151	
Ceetox	st3	20090228A	A	E2	top	119.9	4.43	107.8325	4.055089	56.33677	159.3281	
Ceetox	st3	20090228A	A	E2	bottom	2.012	3.439	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st3	20090228A	A	E2	hillslope	-1.008	0.1401	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st3	20090228A	A	E2	Syx	7.996		4.934565	1.301243		18.60151	
Ceetox	st3	20090305A	A	E2	top	125.5	3.265	107.8325	4.055089	56.33677	159.3281	
Ceetox	st3	20090305A	A	E2	bottom	0.06544	3.016	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st3	20090305A	A	E2	hillslope	-1.251	0.1476	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st3	20090305A	A	E2	Syx	7.276		4.934565	1.301243		18.60151	
Ceetox	st3	20090310A	A	E2	top	111.2	2.733	107.8325	4.055089	56.33677	159.3281	
Ceetox	st3	20090310A	A	E2	bottom	1.866	2.543	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st3	20090310A	A	E2	hillslope	-1.308	0.1516	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st3	20090310A	A	E2	Syx	6.224		4.934565	1.301243		18.60151	
Ceetox	st3	20090401A	A	E2	top	122.4	4.036	107.8325	4.055089	56.33677	159.3281	
Ceetox	st3	20090401A	A	E2	bottom	3.773	3.482	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st3	20090401A	A	E2	hillslope	-1.132	0.1602	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st3	20090401A	A	E2	Syx	8.251		4.934565	1.301243		18.60151	
Ceetox	st4	20090903A	A	E2	top	113.9	2.742	107.8325	4.055089	56.33677	159.3281	
Ceetox	st4	20090903A	A	E2	bottom	1.73	3.207	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st4	20090903A	A	E2	hillslope	-1.582	0.234	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st4	20090903A	A	E2	Syx	7.668		4.934565	1.301243		18.60151	
Ceetox	st4	20090905A	A	E2	top	116.1	2.985	107.8325	4.055089	56.33677	159.3281	
Ceetox	st4	20090905A	A	E2	bottom	2.841	2.69	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st4	20090905A	A	E2	hillslope	-1.299	0.1551	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st4	20090905A	A	E2	Syx	6.641		4.934565	1.301243		18.60151	
Ceetox	st4	20090907A	A	E2	top	176.8	6.272	107.8325	4.055089	56.33677	159.3281	Above
Ceetox	st4	20090907A	A	E2	bottom	5.987	5.802	1.054297	0.591684	-4.75837	6.866967	
Ceetox	st4	20090907A	A	E2	hillslope	-1.374	0.2378	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st4	20090907A	A	E2	Syx	14.49		4.934565	1.301243		18.60151	
Ceetox	st4	20090930A	A	E2	top	106.4	3.513	107.8325	4.055089	56.33677	159.3281	
Ceetox	st4	20090930A	A	E2	bottom	9.64	4.07	1.054297	0.591684	-4.75837	6.866967	Above
Ceetox	st4	20090930A	A	E2	hillslope	-1.76	0.4148	-1.19633	0.040468	-2.2555	-0.13717	
Ceetox	st4	20090930A	A	E2	Syx	10		4.934565	1.301243		18.60151	
Freyberger	st2	B	A	E2	top	101	0.7404	107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	B	A	E2	bottom	-0.4851	0.5382	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st2	B	A	E2	hillslope	-1.094	0.02938	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st2	B	A	E2	Syx	1.332		4.934565	1.301243		18.60151	
Freyberger	st2	C	A	E2	top	99.55	0.7357	107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	C	A	E2	bottom	-0.5349	0.5319	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st2	C	A	E2	hillslope	-1.102	0.02981	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st2	C	A	E2	Syx	1.323		4.934565	1.301243		18.60151	
Freyberger	st2	D	A	E2	top	99.27	0.7392	107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	D	A	E2	bottom	-0.2586	0.5305	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st2	D	A	E2	hillslope	-1.069	0.0287	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st2	D	A	E2	Syx	1.305		4.934565	1.301243		18.60151	
Freyberger	st2	E	A	E2	top	102.7	0.9177	107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	E	A	E2	bottom	-1.389	0.6566	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st2	E	A	E2	hillslope	-1.131	0.03692	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st2	E	A	E2	Syx	1.659		4.934565	1.301243		18.60151	
Freyberger	st2	F	A	E2	top	102.8	0.9923	107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	F	A	E2	bottom	-0.6075	0.6732	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st2	F	A	E2	hillslope	-1.162	0.04058	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st2	F	A	E2	Syx	1.755		4.934565	1.301243		18.60151	
Freyberger	st2	G	A	E2	top	88.15	1.517	107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	G	A	E2	bottom	0.6031	1.328	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st2	G	A	E2	hillslope	-1.59	0.1375	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st2	G	A	E2	Syx	3.549		4.934565	1.301243		18.60151	
Freyberger	st3	CODE A1	A	E2	top	95.85	1.61	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE A1	A	E2	bottom	0.2734	1.132	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE A1	A	E2	hillslope	-1.12	0.06882	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE A1	A	E2	Syx	2.865		4.934565	1.301243		18.60151	
Freyberger	st3	CODE A2	A	E2	top	100.8	1.462	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE A2	A	E2	bottom	-0.5603	0.9848	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE A2	A	E2	hillslope	-1.036	0.05129	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE A2	A	E2	Syx	2.438		4.934565	1.301243		18.60151	
Freyberger	st3	CODE A3	A	E2	top	99.95	1.283	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE A3	A	E2	bottom	-1.267	0.8838	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Freyberger	st3	CODE A3	A	E2	hillslope	-1.106	0.05028	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE A3	A	E2	Syx	2.241		4.934565	1.301243		18.60151	
Freyberger	st3	CODE B1	A	E2	top	98.76	1.074	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE B1	A	E2	bottom	-0.3734	0.742	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE B1	A	E2	hillslope	-1.142	0.04512	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE B1	A	E2	Syx	1.907		4.934565	1.301243		18.60151	
Freyberger	st3	CODE B2	A	E2	top	99.68	1.223	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE B2	A	E2	bottom	-0.2106	0.8668	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE B2	A	E2	hillslope	-1.118	0.05013	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE B2	A	E2	Syx	2.186		4.934565	1.301243		18.60151	
Freyberger	st3	CODE B3	A	E2	top	99.2	1.209	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE B3	A	E2	bottom	0.1685	0.8364	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE B3	A	E2	hillslope	-1.158	0.05193	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE B3	A	E2	Syx	2.161		4.934565	1.301243		18.60151	
Freyberger	st3	CODE C1	A	E2	top	103	1.448	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE C1	A	E2	bottom	-0.9596	1.064	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE C1	A	E2	hillslope	-1.201	0.06493	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE C1	A	E2	Syx	2.732		4.934565	1.301243		18.60151	
Freyberger	st3	CODE C2	A	E2	top	103.6	0.904	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE C2	A	E2	bottom	-0.738	0.6462	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE C2	A	E2	hillslope	-1.144	0.03694	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE C2	A	E2	Syx	1.642		4.934565	1.301243		18.60151	
Freyberger	st3	CODE C3	A	E2	top	96.78	1.037	107.8325	4.055089	56.33677	159.3281	
Freyberger	st3	CODE C3	A	E2	bottom	-0.7737	0.7599	1.054297	0.591684	-4.75837	6.866967	
Freyberger	st3	CODE C3	A	E2	hillslope	-1.139	0.04563	-1.19633	0.040468	-2.2555	-0.13717	
Freyberger	st3	CODE C3	A	E2	Syx	1.91		4.934565	1.301243		18.60151	
JapanCERI	st1	091224_01	A	E2	top	92.45	1.591	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st1	091224_01	A	E2	bottom	-0.933	1.322	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st1	091224_01	A	E2	hillslope	-1.367	0.104	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st1	091224_01	A	E2	Syx	3.418		4.934565	1.301243		18.60151	
JapanCERI	st1	100107_02	A	E2	top	99.42	1.459	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st1	100107_02	A	E2	bottom	-0.8592	1.149	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st1	100107_02	A	E2	hillslope	-1.424	0.09269	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st1	100107_02	A	E2	Syx	3.072		4.934565	1.301243		18.60151	
JapanCERI	st1	100108_03	A	E2	top	101.8	2.576	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st1	100108_03	A	E2	bottom	-3.529	2.028	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st1	100108_03	A	E2	hillslope	-1.277	0.1304	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st1	100108_03	A	E2	Syx	5.207		4.934565	1.301243		18.60151	
JapanCERI	st2	100119_01	A	E2	top	108	4.198	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st2	100119_01	A	E2	bottom	4.423	3.925	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st2	100119_01	A	E2	hillslope	-1.423	0.2779	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st2	100119_01	A	E2	Syx	9.886		4.934565	1.301243		18.60151	
JapanCERI	st2	100126_02	A	E2	top	109.7	2.165	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st2	100126_02	A	E2	bottom	4.007	1.82	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
JapanCERI	st2	100126_02	A	E2	hillslope	-1.377	0.1271	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st2	100126_02	A	E2	Syx	4.699		4.934565	1.301243		18.60151	
JapanCERI	st2	100129_03	A	E2	top	101	3.419	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st2	100129_03	A	E2	bottom	1.344	2.803	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st2	100129_03	A	E2	hillslope	-1.136	0.1569	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st2	100129_03	A	E2	Syx	6.768		4.934565	1.301243		18.60151	
JapanCERI	st3	100203_01	A	E2	top	137.8	2.214	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100203_01	A	E2	bottom	-0.4119	1.798	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100203_01	A	E2	hillslope	-1.22	0.08099	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100203_01	A	E2	Syx	4.488		4.934565	1.301243		18.60151	
JapanCERI	st3	100208_02	A	E2	top	126.6	2.146	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100208_02	A	E2	bottom	-2.682	1.814	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100208_02	A	E2	hillslope	-1.212	0.08501	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100208_02	A	E2	Syx	4.455		4.934565	1.301243		18.60151	
JapanCERI	st3	100215_03	A	E2	top	102.1	1.866	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100215_03	A	E2	bottom	4.303	1.638	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100215_03	A	E2	hillslope	-1.405	0.1244	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100215_03	A	E2	Syx	4.198		4.934565	1.301243		18.60151	
JapanCERI	st3	100223_04	A	E2	top	97.33	2.145	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100223_04	A	E2	bottom	4.079	1.809	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100223_04	A	E2	hillslope	-1.459	0.1569	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100223_04	A	E2	Syx	4.76		4.934565	1.301243		18.60151	
JapanCERI	st3	100224_05	A	E2	top	106.7	2.021	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100224_05	A	E2	bottom	6.039	1.755	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100224_05	A	E2	hillslope	-1.527	0.1487	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100224_05	A	E2	Syx	4.643		4.934565	1.301243		18.60151	
JapanCERI	st3	100225_06	A	E2	top	93.76	1.422	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100225_06	A	E2	bottom	3.021	1.267	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100225_06	A	E2	hillslope	-1.51	0.1147	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100225_06	A	E2	Syx	3.31		4.934565	1.301243		18.60151	
JapanCERI	st3	100226_07	A	E2	top	100.2	1.247	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100226_07	A	E2	bottom	2.946	1.092	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100226_07	A	E2	hillslope	-1.413	0.08423	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100226_07	A	E2	Syx	2.807		4.934565	1.301243		18.60151	
JapanCERI	st3	100301_08	A	E2	top	90.77	0.7501	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100301_08	A	E2	bottom	1.15	0.666	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100301_08	A	E2	hillslope	-1.217	0.04446	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100301_08	A	E2	Syx	1.611		4.934565	1.301243		18.60151	
JapanCERI	st3	100303_09	A	E2	top	115.1	2.179	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100303_09	A	E2	bottom	-0.6877	1.913	1.054297	0.591684	-4.75837	6.866967	
JapanCERI	st3	100303_09	A	E2	hillslope	-1.332	0.1133	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100303_09	A	E2	Syx	4.81		4.934565	1.301243		18.60151	
JapanCERI	st3	100305_10	A	E2	top	98.48	1.584	107.8325	4.055089	56.33677	159.3281	
JapanCERI	st3	100305_10	A	E2	bottom	3.412	1.359	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
JapanCERI	st3	100305_10	A	E2	hillslope	-1.106	0.07571	-1.19633	0.040468	-2.2555	-0.13717	
JapanCERI	st3	100305_10	A	E2	Syx	3.193		4.934565	1.301243		18.60151	
Lovelace	st1	6-Jan-09	A	E2	top	160.6	21.13	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st1	6-Jan-09	A	E2	bottom	7.568	13.77	1.054297	0.591684	-4.75837	6.866967	Above
Lovelace	st1	6-Jan-09	A	E2	hillslope	-0.8171	0.3479	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st1	6-Jan-09	A	E2	Syx	29.89		4.934565	1.301243		18.60151	Above
Lovelace	st1	13-Jan-09	A	E2	top	102	3.851	107.8325	4.055089	56.33677	159.3281	
Lovelace	st1	13-Jan-09	A	E2	bottom	4.36	2.218	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st1	13-Jan-09	A	E2	hillslope	-1.136	0.1486	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st1	13-Jan-09	A	E2	Syx	6.074		4.934565	1.301243		18.60151	
Lovelace	st1	16-Jan-09	A	E2	top	97.3	8.375	107.8325	4.055089	56.33677	159.3281	
Lovelace	st1	16-Jan-09	A	E2	bottom	-6.615	4.024	1.054297	0.591684	-4.75837	6.866967	Below
Lovelace	st1	16-Jan-09	A	E2	hillslope	-0.755	0.1573	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st1	16-Jan-09	A	E2	Syx	8.95		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_12-Nov-09	A	E2	top	97.87	4.749	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_12-Nov-09	A	E2	bottom	2.332	4.6	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st12	ABC Coded_12-Nov-09	A	E2	hillslope	-1.069	0.2381	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_12-Nov-09	A	E2	Syx	10.18		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_23-Sep-09	A	E2	top	117.4	4.561	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_23-Sep-09	A	E2	bottom	-1.757	4.708	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st12	ABC Coded_23-Sep-09	A	E2	hillslope	-1.68	0.3618	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_23-Sep-09	A	E2	Syx	12.02		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_29	A	E2	top	104.6	9.137	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_29	A	E2	bottom	8.093	7.224	1.054297	0.591684	-4.75837	6.866967	Above
Lovelace	st12	ABC Coded_29	A	E2	hillslope	-1.277	0.5062	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_29	A	E2	Syx	18.52		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_29-Jan-10	A	E2	top	163.8	7.676	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st12	ABC Coded_29-Jan-10	A	E2	bottom	-1.785	4.493	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st12	ABC Coded_29-Jan-10	A	E2	hillslope	-1.05	0.1568	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_29-Jan-10	A	E2	Syx	11.76		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	E2	top	97.34	7.041	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	E2	bottom	-1.943	3.67	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	E2	hillslope	-1.003	0.215	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	E2	Syx	9.719		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	E2	top	87.84	5.359	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	E2	bottom	1.729	3.177	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	E2	hillslope	-1.386	0.3183	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	E2	Syx	9.378		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	E2	top	86.1	5.999	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	E2	bottom	8.084	3.384	1.054297	0.591684	-4.75837	6.866967	Above
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	E2	hillslope	-1.263	0.3358	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	E2	Syx	9.795		4.934565	1.301243		18.60151	
Lovelace	st2	4-May-09	A	E2	top	126.5	1.951	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	4-May-09	A	E2	bottom	0.4636	1.449	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st2	4-May-09	A	E2	hillslope	-1.15	0.06797	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	4-May-09	A	E2	Syx	3.639		4.934565	1.301243		18.60151	
Lovelace	st2	5-May-09	A	E2	top	86.58	4.261	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	5-May-09	A	E2	bottom	0.7219	4.204	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st2	5-May-09	A	E2	hillslope	-1.582	0.4094	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	5-May-09	A	E2	Syx	10.75		4.934565	1.301243		18.60151	
Lovelace	st2	6-May-09	A	E2	top	151.2	3.771	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	6-May-09	A	E2	bottom	-3.004	2.478	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st2	6-May-09	A	E2	hillslope	-0.9202	0.07261	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	6-May-09	A	E2	Syx	5.8		4.934565	1.301243		18.60151	
Lovelace	st2	8-May-09	A	E2	top	111.9	4.548	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	8-May-09	A	E2	bottom	5.471	4.076	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st2	8-May-09	A	E2	hillslope	-1.028	0.182	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	8-May-09	A	E2	Syx	9.101		4.934565	1.301243		18.60151	
Lovelace	st2	26-Feb-09	A	E2	top	111.8	7.496	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	26-Feb-09	A	E2	bottom	8.488	4.374	1.054297	0.591684	-4.75837	6.866967	Above
Lovelace	st2	26-Feb-09	A	E2	hillslope	-1.162	0.2838	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	26-Feb-09	A	E2	Syx	12.05		4.934565	1.301243		18.60151	
Lovelace	st2	27-Feb-09	A	E2	top	166.1	6.412	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st2	27-Feb-09	A	E2	bottom	3.988	3.944	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st2	27-Feb-09	A	E2	hillslope	-1.283	0.1834	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	27-Feb-09	A	E2	Syx	11.13		4.934565	1.301243		18.60151	
Lovelace	st2	27-Mar-09	A	E2	top	184.1	23.67	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st2	27-Mar-09	A	E2	bottom	-4.97	14.87	1.054297	0.591684	-4.75837	6.866967	Below
Lovelace	st2	27-Mar-09	A	E2	hillslope	-0.882	0.3423	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st2	27-Mar-09	A	E2	Syx	34.4		4.934565	1.301243		18.60151	Above
Lovelace	st3	1-Jun-09	A	E2	top	106.7	2.562	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	1-Jun-09	A	E2	bottom	2.414	2.046	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st3	1-Jun-09	A	E2	hillslope	-1.157	0.1136	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	1-Jun-09	A	E2	Syx	5.026		4.934565	1.301243		18.60151	
Lovelace	st3	4-Jun-09	A	E2	top	109.1	6.544	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	4-Jun-09	A	E2	bottom	1.392	4.41	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st3	4-Jun-09	A	E2	hillslope	-0.856	0.166	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	4-Jun-09	A	E2	Syx	9.776		4.934565	1.301243		18.60151	
Lovelace	st3	8-Jun-09	A	E2	top	108.6	1.858	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	8-Jun-09	A	E2	bottom	2.308	1.438	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st3	8-Jun-09	A	E2	hillslope	-1.037	0.06767	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	8-Jun-09	A	E2	Syx	3.396		4.934565	1.301243		18.60151	
Lovelace	st3	10-Jul-09	A	E2	top	112.8	4.312	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	10-Jul-09	A	E2	bottom	-1.319	2.816	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st3	10-Jul-09	A	E2	hillslope	-0.8412	0.09902	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	10-Jul-09	A	E2	Syx	6.234		4.934565	1.301243		18.60151	
Lovelace	st3	10-Jun-09	A	E2	top	117.7	2.312	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	10-Jun-09	A	E2	bottom	0.9932	1.426	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st3	10-Jun-09	A	E2	hillslope	-0.9666	0.06096	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	10-Jun-09	A	E2	Syx	3.507		4.934565	1.301243		18.60151	
Lovelace	st3	11-Jun-09	A	E2	top	135.5	4.634	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	11-Jun-09	A	E2	bottom	1.163	2.817	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st3	11-Jun-09	A	E2	hillslope	-0.996	0.11	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	11-Jun-09	A	E2	Syx	7.078		4.934565	1.301243		18.60151	
Lovelace	st3	15-Jun-09	A	E2	top	111.5	4.99	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	15-Jun-09	A	E2	bottom	0.1897	3.245	1.054297	0.591684	-4.75837	6.866967	
Lovelace	st3	15-Jun-09	A	E2	hillslope	-0.9517	0.1387	-1.19633	0.040468	-2.2555	-0.13717	
Lovelace	st3	15-Jun-09	A	E2	Syx	7.771		4.934565	1.301243		18.60151	
Missouri	st1	4001 2m	A	E2	top	88.43	3.574	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4001 2m	A	E2	bottom	0.378	2.618	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4001 2m	A	E2	hillslope	-1.068	0.1585	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4001 2m	A	E2	Syx	6.39		4.934565	1.301243		18.60151	
Missouri	st1	4001 final	A	E2	top	101.9	5.124	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4001 final	A	E2	bottom	-1.15	3.084	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4001 final	A	E2	hillslope	-0.7993	0.1164	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4001 final	A	E2	Syx	6.754		4.934565	1.301243		18.60151	
Missouri	st1	4002 final	A	E2	top	105.7	3.23	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4002 final	A	E2	bottom	0.8615	1.931	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4002 final	A	E2	hillslope	-0.8488	0.07793	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4002 final	A	E2	Syx	4.425		4.934565	1.301243		18.60151	
Missouri	st1	4003 final	A	E2	top	102.7	6.1	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4003 final	A	E2	bottom	0.7419	5.003	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4003 final	A	E2	hillslope	-1.206	0.2989	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4003 final	A	E2	Syx	12.39		4.934565	1.301243		18.60151	
Missouri	st1	4005 final	A	E2	top	95.96	3.374	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4005 final	A	E2	bottom	-0.2007	2.279	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4005 final	A	E2	hillslope	-1.06	0.1292	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4005 final	A	E2	Syx	5.701		4.934565	1.301243		18.60151	
Missouri	st1	4006 final	A	E2	top	102.5	3.212	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4006 final	A	E2	bottom	-0.6895	2.158	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4006 final	A	E2	hillslope	-1.034	0.1102	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4006 final	A	E2	Syx	5.342		4.934565	1.301243		18.60151	
Missouri	st1	4007 final	A	E2	top	95.29	3.086	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	4007 final	A	E2	bottom	0.4471	2.015	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	4007 final	A	E2	hillslope	-0.9647	0.1028	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	4007 final	A	E2	Syx	4.856		4.934565	1.301243		18.60151	
Missouri	st1	5003 stds only w2	A	E2	top	94.9	2.972	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	5003 stds only w2	A	E2	bottom	-1.036	2.406	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	5003 stds only w2	A	E2	hillslope	-1.369	0.1872	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	5003 stds only w2	A	E2	Syx	6.278		4.934565	1.301243		18.60151	
Missouri	st1	5005 stds only w1	A	E2	top	107.2	2.01	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	5005 stds only w1	A	E2	bottom	0.7431	1.613	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st1	5005 stds only w1	A	E2	hillslope	-1.392	0.123	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	5005 stds only w1	A	E2	Syx	4.234		4.934565	1.301243		18.60151	
Missouri	st1	5007 stds only_E2	A	E2	top	100.2	2.099	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	5007 stds only_E2	A	E2	bottom	1.33	1.394	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	5007 stds only_E2	A	E2	hillslope	-1.173	0.08994	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	5007 stds only_E2	A	E2	Syx	3.677		4.934565	1.301243		18.60151	
Missouri	st1	5010 stds only w2	A	E2	top	100.4	2.59	107.8325	4.055089	56.33677	159.3281	
Missouri	st1	5010 stds only w2	A	E2	bottom	-1.597	1.578	1.054297	0.591684	-4.75837	6.866967	
Missouri	st1	5010 stds only w2	A	E2	hillslope	-1.159	0.101	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st1	5010 stds only w2	A	E2	Syx	4.275		4.934565	1.301243		18.60151	
Missouri	st2	5006 no del	A	E2	top	103.9	2.065	107.8325	4.055089	56.33677	159.3281	
Missouri	st2	5006 no del	A	E2	bottom	-1.1	1.284	1.054297	0.591684	-4.75837	6.866967	
Missouri	st2	5006 no del	A	E2	hillslope	-1.099	0.07305	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st2	5006 no del	A	E2	Syx	3.367		4.934565	1.301243		18.60151	
Missouri	st2	5008 default	A	E2	top	96.94	2.206	107.8325	4.055089	56.33677	159.3281	
Missouri	st2	5008 default	A	E2	bottom	1.561	1.805	1.054297	0.591684	-4.75837	6.866967	
Missouri	st2	5008 default	A	E2	hillslope	-1.56	0.1751	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st2	5008 default	A	E2	Syx	4.906		4.934565	1.301243		18.60151	
Missouri	st2	5009 no deletion	A	E2	top	111.8	2.432	107.8325	4.055089	56.33677	159.3281	
Missouri	st2	5009 no deletion	A	E2	bottom	-1.141	1.694	1.054297	0.591684	-4.75837	6.866967	
Missouri	st2	5009 no deletion	A	E2	hillslope	-1.172	0.0937	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st2	5009 no deletion	A	E2	Syx	4.39		4.934565	1.301243		18.60151	
Missouri	st3	1-7_6001 final	A	E2	top	98.78	2.17	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	1-7_6001 final	A	E2	bottom	3.797	1.849	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	1-7_6001 final	A	E2	hillslope	-1.542	0.1714	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	1-7_6001 final	A	E2	Syx	4.938		4.934565	1.301243		18.60151	
Missouri	st3	1-7_6002 final	A	E2	top	94.92	1.576	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	1-7_6002 final	A	E2	bottom	-2.216	1.16	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	1-7_6002 final	A	E2	hillslope	-1.066	0.06335	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	1-7_6002 final	A	E2	Syx	2.825		4.934565	1.301243		18.60151	
Missouri	st3	1-7_6005 final	A	E2	top	98.8	2.057	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	1-7_6005 final	A	E2	bottom	1.657	1.505	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	1-7_6005 final	A	E2	hillslope	-1.443	0.132	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	1-7_6005 final	A	E2	Syx	4.156		4.934565	1.301243		18.60151	
Missouri	st3	1-7_6006 final	A	E2	top	95.6	3.414	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	1-7_6006 final	A	E2	bottom	2.622	2.549	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	1-7_6006 final	A	E2	hillslope	-1.22	0.172	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	1-7_6006 final	A	E2	Syx	6.227		4.934565	1.301243		18.60151	
Missouri	st3	1-7_6007 final	A	E2	top	109.3	3.02	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	1-7_6007 final	A	E2	bottom	-1.248	2.484	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	1-7_6007 final	A	E2	hillslope	-1.393	0.1711	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	1-7_6007 final	A	E2	Syx	6.488		4.934565	1.301243		18.60151	
Missouri	st3	6502 final	A	E2	top	102.1	2.855	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	6502 final	A	E2	bottom	-1.905	1.855	1.054297	0.591684	-4.75837	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st3	6502 final	A	E2	hillslope	-0.9759	0.08792	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	6502 final	A	E2	Syx	4.507		4.934565	1.301243		18.60151	
Missouri	st3	6503 final	A	E2	top	91.4	1.594	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	6503 final	A	E2	bottom	-1.051	1.211	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	6503 final	A	E2	hillslope	-1.203	0.08217	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	6503 final	A	E2	Syx	3.076		4.934565	1.301243		18.60151	
Missouri	st3	6504 final	A	E2	top	89.96	5.267	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	6504 final	A	E2	bottom	-0.8957	4.176	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	6504 final	A	E2	hillslope	-1.072	0.239	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	6504 final	A	E2	Syx	9.936		4.934565	1.301243		18.60151	
Missouri	st3	8-14_6009 final	A	E2	top	107.3	3.887	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	8-14_6009 final	A	E2	bottom	-1.868	2.103	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	8-14_6009 final	A	E2	hillslope	-0.8675	0.08874	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	8-14_6009 final	A	E2	Syx	5.035		4.934565	1.301243		18.60151	
Missouri	st3	8-14_6010 final	A	E2	top	85.7	3.12	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	8-14_6010 final	A	E2	bottom	-2.831	1.756	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	8-14_6010 final	A	E2	hillslope	-0.8367	0.08497	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	8-14_6010 final	A	E2	Syx	4.055		4.934565	1.301243		18.60151	
Missouri	st3	8-14_6011 final	A	E2	top	110.7	3.328	107.8325	4.055089	56.33677	159.3281	
Missouri	st3	8-14_6011 final	A	E2	bottom	4.716	2.517	1.054297	0.591684	-4.75837	6.866967	
Missouri	st3	8-14_6011 final	A	E2	hillslope	-1.207	0.1457	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st3	8-14_6011 final	A	E2	Syx	6.095		4.934565	1.301243		18.60151	
Missouri	st4	2206	A	E2	top	93.03	5.03	107.8325	4.055089	56.33677	159.3281	
Missouri	st4	2206	A	E2	bottom	-2.724	2.472	1.054297	0.591684	-4.75837	6.866967	
Missouri	st4	2206	A	E2	hillslope	-1.107	0.1812	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st4	2206	A	E2	Syx	7.038		4.934565	1.301243		18.60151	
Missouri	st4	2210	A	E2	top	86.51	6.731	107.8325	4.055089	56.33677	159.3281	
Missouri	st4	2210	A	E2	bottom	-3.933	2.944	1.054297	0.591684	-4.75837	6.866967	
Missouri	st4	2210	A	E2	hillslope	-1.187	0.2827	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st4	2210	A	E2	Syx	8.602		4.934565	1.301243		18.60151	
Missouri	st4	2211	A	E2	top	97.9	3.124	107.8325	4.055089	56.33677	159.3281	
Missouri	st4	2211	A	E2	bottom	0.3753	1.861	1.054297	0.591684	-4.75837	6.866967	
Missouri	st4	2211	A	E2	hillslope	-1.072	0.1125	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st4	2211	A	E2	Syx	4.893		4.934565	1.301243		18.60151	
Missouri	st4	2301	A	E2	top	86.14	3.109	107.8325	4.055089	56.33677	159.3281	
Missouri	st4	2301	A	E2	bottom	2.454	2.327	1.054297	0.591684	-4.75837	6.866967	
Missouri	st4	2301	A	E2	hillslope	-1.007	0.1274	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st4	2301	A	E2	Syx	4.833		4.934565	1.301243		18.60151	
Missouri	st4	2302	A	E2	top	97.29	3.337	107.8325	4.055089	56.33677	159.3281	
Missouri	st4	2302	A	E2	bottom	-0.9259	2.127	1.054297	0.591684	-4.75837	6.866967	
Missouri	st4	2302	A	E2	hillslope	-1.427	0.1876	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st4	2302	A	E2	Syx	6.179		4.934565	1.301243		18.60151	
Missouri	st4	2305	A	E2	top	89.56	7.421	107.8325	4.055089	56.33677	159.3281	
Missouri	st4	2305	A	E2	bottom	-5.812	3.427	1.054297	0.591684	-4.75837	6.866967	Below

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st4	2305	A	E2	hillslope	-0.9243	0.2011	-1.19633	0.040468	-2.2555	-0.13717	
Missouri	st4	2305	A	E2	Syx	8.385		4.934565	1.301243		18.60151	

Table E-2. CERI Assay, Parameter Estimates for the Unacceptable E2 Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st2	20090218	U	E2	top	127.4	9.444	107.8325	4.055089	56.33677	159.3281	
Ceetox	st2	20090218	U	E2	bottom	-1.478	6.412	1.054297	0.591684	-4.758372	6.866967	
Ceetox	st2	20090218	U	E2	hillslope	-0.6919	0.1537	-1.196334	0.040468	-2.255498	-0.137169	
Ceetox	st2	20090218	U	E2	Syx	11.7		4.934565	1.301243		18.60151	
Ceetox	st3	20090415	U	E2	top	105.6	2.839	107.8325	4.055089	56.33677	159.3281	
Ceetox	st3	20090415	U	E2	bottom	0.9289	1.429	1.054297	0.591684	-4.758372	6.866967	
Ceetox	st3	20090415	U	E2	hillslope	-1.596	0.1616	-1.196334	0.040468	-2.255498	-0.137169	
Ceetox	st3	20090415	U	E2	Syx	4.705		4.934565	1.301243		18.60151	
Freyberger	st2	A	U	E2	top			107.8325	4.055089	56.33677	159.3281	
Freyberger	st2	A	U	E2	bottom			1.054297	0.591684	-4.758372	6.866967	
Freyberger	st2	A	U	E2	hillslope			-1.196334	0.040468	-2.255498	-0.137169	
Freyberger	st2	A	U	E2	Syx			4.934565	1.301243		18.60151	
Lovelace	st1	39821	U	E2	top	152.2	79.51	107.8325	4.055089	56.33677	159.3281	
Lovelace	st1	39821	U	E2	bottom	0.1309	13.85	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st1	39821	U	E2	hillslope	-0.5458	0.3952	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st1	39821	U	E2	Syx	25.63		4.934565	1.301243		18.60151	Above
Lovelace	st1	39813	U	E2	top	88.52	33.56	107.8325	4.055089	56.33677	159.3281	
Lovelace	st1	39813	U	E2	bottom	2.471	1.031	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st1	39813	U	E2	hillslope	-0.6067	0.143	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st1	39813	U	E2	Syx	2.301		4.934565	1.301243		18.60151	
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	E2	top	241.6	8.755	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	E2	bottom	9.212	5.415	1.054297	0.591684	-4.758372	6.866967	Above
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	E2	hillslope	-0.9853	0.1193	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	E2	Syx	13.45		4.934565	1.301243		18.60151	
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	E2	top	465.5	105.6	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	E2	bottom	-25.48	64.55	1.054297	0.591684	-4.758372	6.866967	Below
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	E2	hillslope	-0.3174	0.1422	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	E2	Syx	30.97		4.934565	1.301243		18.60151	Above
Lovelace	st12	14May10_JCS 10-15-10b	U	E2	top			107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	14May10_JCS 10-15-10b	U	E2	bottom			1.054297	0.591684	-4.758372	6.866967	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st12	14May10_JCS 10-15-10b	U	E2	hillslope			-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	14May10_JCS 10-15-10b	U	E2	Syx			4.934565	1.301243		18.60151	
Lovelace	st12	A dil variations_04Dec-09	U	E2	top	165	6.794	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st12	A dil variations_04Dec-09	U	E2	bottom	0.3958	3.926	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st12	A dil variations_04Dec-09	U	E2	hillslope	-0.9661	0.1231	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	A dil variations_04Dec-09	U	E2	Syx	9.856		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_08-Dec-09	U	E2	top	245.3	47.9	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st12	ABC Coded_08-Dec-09	U	E2	bottom	-3.105	15.11	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st12	ABC Coded_08-Dec-09	U	E2	hillslope	-0.6061	0.2276	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	ABC Coded_08-Dec-09	U	E2	Syx	29.39		4.934565	1.301243		18.60151	Above
Lovelace	st12	ABC Coded_20-Oct-09 JCS	U	E2	top	169	5.874	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st12	ABC Coded_20-Oct-09 JCS	U	E2	bottom	1.46	3.854	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st12	ABC Coded_20-Oct-09 JCS	U	E2	hillslope	-0.8791	0.09774	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	ABC Coded_20-Oct-09 JCS	U	E2	Syx	8.773		4.934565	1.301243		18.60151	
Lovelace	st12	ABC Coded_27-Oct-09	U	E2	top	142.3	9.641	107.8325	4.055089	56.33677	159.3281	
Lovelace	st12	ABC Coded_27-Oct-09	U	E2	bottom	20.38	6.886	1.054297	0.591684	-4.758372	6.866967	Above
Lovelace	st12	ABC Coded_27-Oct-09	U	E2	hillslope	-1.355	0.4379	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st12	ABC Coded_27-Oct-09	U	E2	Syx	18.75		4.934565	1.301243		18.60151	Above
Lovelace	st2	39875	U	E2	top	75.05	5.848	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	39875	U	E2	bottom	-0.5065	3.882	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st2	39875	U	E2	hillslope	-2.2	0.7717	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st2	39875	U	E2	Syx	12.72		4.934565	1.301243		18.60151	
Lovelace	st2	39877	U	E2	top	279.6	10.36	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st2	39877	U	E2	bottom	7.151	6.12	1.054297	0.591684	-4.758372	6.866967	Above
Lovelace	st2	39877	U	E2	hillslope	-0.9298	0.1085	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st2	39877	U	E2	Syx	14.92		4.934565	1.301243		18.60151	
Lovelace	st2	39940	U	E2	top	7015	239.5	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st2	39940	U	E2	bottom	-30.28	218.1	1.054297	0.591684	-4.758372	6.866967	Below
Lovelace	st2	39940	U	E2	hillslope	-1.459	0.2381	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st2	39940	U	E2	Syx	559.3		4.934565	1.301243		18.60151	Above
Lovelace	st2	39883	U	E2	top	104.5	7.971	107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	39883	U	E2	bottom	-0.3333	11.27	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st2	39883	U	E2	hillslope			-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st2	39883	U	E2	Syx	27.61		4.934565	1.301243		18.60151	Above
Lovelace	st2	39889	U	E2	top			107.8325	4.055089	56.33677	159.3281	
Lovelace	st2	39889	U	E2	bottom	1.886	33.86	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st2	39889	U	E2	hillslope	-0.4825	1.313	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st2	39889	U	E2	Syx	89.15		4.934565	1.301243		18.60151	Above
Lovelace	st3	39995	U	E2	top	112.2	3.942	107.8325	4.055089	56.33677	159.3281	
Lovelace	st3	39995	U	E2	bottom	4.76	3.966	1.054297	0.591684	-4.758372	6.866967	
Lovelace	st3	39995	U	E2	hillslope	-2.882	0.7019	-1.196334	0.040468	-2.255498	-0.137169	Below
Lovelace	st3	39995	U	E2	Syx	11.5		4.934565	1.301243		18.60151	
Lovelace	st3	39976	U	E2	top	304.2	13.52	107.8325	4.055089	56.33677	159.3281	Above
Lovelace	st3	39976	U	E2	bottom	33.73	8.633	1.054297	0.591684	-4.758372	6.866967	Above

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st3	39976	U	E2	hillslope	-1.095	0.1871	-1.196334	0.040468	-2.255498	-0.137169	
Lovelace	st3	39976	U	E2	Syx	22.38		4.934565	1.301243		18.60151	Above

Table E-3. CERI Assay, Parameter Estimates for the Acceptable NE Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st1	20090207	A	NE	top	96.28	0.9131	103.7112	2.882631	67.45473	139.9677	
Ceetox	st1	20090207	A	NE	bottom	1.201	2.044	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st1	20090207	A	NE	hillslope	-0.8593	0.04992	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st1	20090207	A	NE	Syx	2.135		4.170459	1.242425		13.29205	
Ceetox	st1	20090208	A	NE	top	94.59	1.039	103.7112	2.882631	67.45473	139.9677	
Ceetox	st1	20090208	A	NE	bottom	2.706	2.431	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st1	20090208	A	NE	hillslope	-0.9692	0.07316	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st1	20090208	A	NE	Syx	2.731		4.170459	1.242425		13.29205	
Ceetox	st1	20090211	A	NE	top	96.99	1.172	103.7112	2.882631	67.45473	139.9677	
Ceetox	st1	20090211	A	NE	bottom	0.7085	3.192	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st1	20090211	A	NE	hillslope	-0.9634	0.08718	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st1	20090211	A	NE	Syx	3.157		4.170459	1.242425		13.29205	
Ceetox	st2	20090215	A	NE	top	95.17	0.8505	103.7112	2.882631	67.45473	139.9677	
Ceetox	st2	20090215	A	NE	bottom	6.145	1.751	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st2	20090215	A	NE	hillslope	-1.129	0.07036	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st2	20090215	A	NE	Syx	2.414		4.170459	1.242425		13.29205	
Ceetox	st2	20090221	A	NE	top	98.11	1.096	103.7112	2.882631	67.45473	139.9677	
Ceetox	st2	20090221	A	NE	bottom	4.209	1.783	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st2	20090221	A	NE	hillslope	-0.9511	0.05709	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st2	20090221	A	NE	Syx	2.52		4.170459	1.242425		13.29205	
Ceetox	st3	20090310A	A	NE	top	94.71	0.7463	103.7112	2.882631	67.45473	139.9677	
Ceetox	st3	20090310A	A	NE	bottom	2.213	1.819	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st3	20090310A	A	NE	hillslope	-1.018	0.0582	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st3	20090310A	A	NE	Syx	2.058		4.170459	1.242425		13.29205	
Ceetox	st3	20090415	A	NE	top	93.38	1.146	103.7112	2.882631	67.45473	139.9677	
Ceetox	st3	20090415	A	NE	bottom	1.509	2.959	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st3	20090415	A	NE	hillslope	-1.106	0.1079	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st3	20090415	A	NE	Syx	3.389		4.170459	1.242425		13.29205	
Ceetox	st4	20090903A	A	NE	top	96.4	0.9859	103.7112	2.882631	67.45473	139.9677	
Ceetox	st4	20090903A	A	NE	bottom	3.846	2.721	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st4	20090903A	A	NE	hillslope	-1.357	0.144	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st4	20090903A	A	NE	Syx	3.286		4.170459	1.242425		13.29205	
Ceetox	st4	20090905A	A	NE	top	101	0.717	103.7112	2.882631	67.45473	139.9677	
Ceetox	st4	20090905A	A	NE	bottom	3.176	1.618	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st4	20090905A	A	NE	hillslope	-1.054	0.05252	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st4	20090905A	A	NE	Syx	1.995		4.170459	1.242425		13.29205	
Ceetox	st4	20090907A	A	NE	top	135.5	4.099	103.7112	2.882631	67.45473	139.9677	
Ceetox	st4	20090907A	A	NE	bottom	12.5	8.782	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st4	20090907A	A	NE	hillslope	-1.309	0.3127	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st4	20090907A	A	NE	Syx	12.83		4.170459	1.242425		13.29205	
Ceetox	st4	20090930A	A	NE	top	90.61	1.983	103.7112	2.882631	67.45473	139.9677	
Ceetox	st4	20090930A	A	NE	bottom	14.38	5.406	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st4	20090930A	A	NE	hillslope	-1.235	0.2877	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st4	20090930A	A	NE	Syx	6.312		4.170459	1.242425		13.29205	
Freyberger	st2	A	A	NE	top	98.63	1.309	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	A	A	NE	bottom	-0.328	1.983	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	A	A	NE	hillslope	-0.8769	0.05508	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	A	A	NE	Syx	2.732		4.170459	1.242425		13.29205	
Freyberger	st2	B	A	NE	top	97.7	0.8614	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	B	A	NE	bottom	-1.259	1.311	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	B	A	NE	hillslope	-0.9546	0.04117	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	B	A	NE	Syx	1.931		4.170459	1.242425		13.29205	
Freyberger	st2	C	A	NE	top	96.84	1.518	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	C	A	NE	bottom	-1.047	2.179	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	C	A	NE	hillslope	-0.9619	0.07178	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	C	A	NE	Syx	3.336		4.170459	1.242425		13.29205	
Freyberger	st2	D	A	NE	top	95.48	1.035	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	D	A	NE	bottom	-0.8012	1.371	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	D	A	NE	hillslope	-1.022	0.05225	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	D	A	NE	Syx	2.288		4.170459	1.242425		13.29205	
Freyberger	st2	E	A	NE	top	100	1.188	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	E	A	NE	bottom	-1.892	1.454	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	E	A	NE	hillslope	-1.009	0.0534	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	E	A	NE	Syx	2.509		4.170459	1.242425		13.29205	
Freyberger	st2	F	A	NE	top	101	0.9325	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	F	A	NE	bottom	-1.106	1.096	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	F	A	NE	hillslope	-1.023	0.04183	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	F	A	NE	Syx	1.949		4.170459	1.242425		13.29205	
Freyberger	st2	G	A	NE	top	103.1	0.7529	103.7112	2.882631	67.45473	139.9677	
Freyberger	st2	G	A	NE	bottom	-1.942	0.8883	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st2	G	A	NE	hillslope	-1.017	0.0326	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st2	G	A	NE	Syx	1.57		4.170459	1.242425		13.29205	
Freyberger	st3	CODE A2	A	NE	top	99.82	0.6935	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE A2	A	NE	bottom	-2.172	0.7855	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE A2	A	NE	hillslope	-1.006	0.02979	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE A2	A	NE	Syx	1.407		4.170459	1.242425		13.29205	
Freyberger	st3	CODE A3	A	NE	top	99.85	1.389	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE A3	A	NE	bottom	-2.069	1.517	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE A3	A	NE	hillslope	-0.9847	0.05669	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE A3	A	NE	Syx	2.727		4.170459	1.242425		13.29205	
Freyberger	st3	CODE B1	A	NE	top	91.46	1.44	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE B1	A	NE	bottom	-2.938	1.751	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE B1	A	NE	hillslope	-0.9126	0.05968	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE B1	A	NE	Syx	2.812		4.170459	1.242425		13.29205	
Freyberger	st3	CODE B2	A	NE	top	97.39	1.025	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE B2	A	NE	bottom	-1.332	1.19	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Freyberger	st3	CODE B2	A	NE	hillslope	-0.978	0.04408	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE B2	A	NE	Syx	2.063		4.170459	1.242425		13.29205	
Freyberger	st3	CODE B3	A	NE	top	101.6	0.9491	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE B3	A	NE	bottom	-1.52	1.054	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE B3	A	NE	hillslope	-0.8916	0.03318	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE B3	A	NE	Syx	1.741		4.170459	1.242425		13.29205	
Freyberger	st3	CODE C1	A	NE	top	107.4	1.25	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE C1	A	NE	bottom	-1.53	1.416	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE C1	A	NE	hillslope	-0.9828	0.04847	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE C1	A	NE	Syx	2.494		4.170459	1.242425		13.29205	
Freyberger	st3	CODE C2	A	NE	top	101	1.313	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE C2	A	NE	bottom	-2.878	1.513	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE C2	A	NE	hillslope	-0.9943	0.05486	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE C2	A	NE	Syx	2.665		4.170459	1.242425		13.29205	
Freyberger	st3	CODE C3	A	NE	top	101.9	1.215	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE C3	A	NE	bottom	-2.695	1.319	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE C3	A	NE	hillslope	-0.964	0.04665	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE C3	A	NE	Syx	2.342		4.170459	1.242425		13.29205	
JapanCERI	st1	091224_01	A	NE	top	97.85	1.77	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st1	091224_01	A	NE	bottom	-7.019	3.122	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st1	091224_01	A	NE	hillslope	-0.721	0.05781	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st1	091224_01	A	NE	Syx	3.205		4.170459	1.242425		13.29205	
JapanCERI	st1	100107_02	A	NE	top	97.09	2.03	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st1	100107_02	A	NE	bottom	-5.558	3.791	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st1	100107_02	A	NE	hillslope	-0.8831	0.09485	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st1	100107_02	A	NE	Syx	4.619		4.170459	1.242425		13.29205	
JapanCERI	st1	100108_03	A	NE	top	100.4	2.078	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st1	100108_03	A	NE	bottom	-4.651	3.879	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st1	100108_03	A	NE	hillslope	-0.9335	0.1029	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st1	100108_03	A	NE	Syx	4.961		4.170459	1.242425		13.29205	
JapanCERI	st2	100119_01	A	NE	top	118.4	3.382	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st2	100119_01	A	NE	bottom	10.77	5.338	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st2	100119_01	A	NE	hillslope	-0.9635	0.1538	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st2	100119_01	A	NE	Syx	7.757		4.170459	1.242425		13.29205	
JapanCERI	st2	100126_02	A	NE	top	104	3.026	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st2	100126_02	A	NE	bottom	9.629	4.537	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st2	100126_02	A	NE	hillslope	-1.285	0.2343	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st2	100126_02	A	NE	Syx	8.116		4.170459	1.242425		13.29205	
JapanCERI	st2	100129_03	A	NE	top	100.5	1.158	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st2	100129_03	A	NE	bottom	9.638	1.636	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st2	100129_03	A	NE	hillslope	-1.194	0.08114	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st2	100129_03	A	NE	Syx	2.906		4.170459	1.242425		13.29205	
JapanCERI	st3	100203_01	A	NE	top	139.6	2.335	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100203_01	A	NE	bottom	3.755	3.27	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
JapanCERI	st3	100203_01	A	NE	hillslope	-1.019	0.08563	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100203_01	A	NE	Syx	5.29		4.170459	1.242425		13.29205	
JapanCERI	st3	100208_02	A	NE	top	134.2	2.188	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100208_02	A	NE	bottom	-2.033	3.03	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100208_02	A	NE	hillslope	-0.9541	0.07199	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100208_02	A	NE	Syx	4.701		4.170459	1.242425		13.29205	
JapanCERI	st3	100215_03	A	NE	top	103.4	1.083	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100215_03	A	NE	bottom	11.4	1.418	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100215_03	A	NE	hillslope	-1.135	0.06695	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100215_03	A	NE	Syx	2.546		4.170459	1.242425		13.29205	
JapanCERI	st3	100223_04	A	NE	top	95.98	1.279	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100223_04	A	NE	bottom	11.01	1.655	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100223_04	A	NE	hillslope	-1.11	0.08215	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100223_04	A	NE	Syx	2.951		4.170459	1.242425		13.29205	
JapanCERI	st3	100224_05	A	NE	top	111.1	1.152	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100224_05	A	NE	bottom	9.151	1.517	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100224_05	A	NE	hillslope	-1.046	0.05678	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100224_05	A	NE	Syx	2.58		4.170459	1.242425		13.29205	
JapanCERI	st3	100225_06	A	NE	top	94.95	0.7996	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100225_06	A	NE	bottom	8.046	1.07	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100225_06	A	NE	hillslope	-1.173	0.05567	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100225_06	A	NE	Syx	1.937		4.170459	1.242425		13.29205	
JapanCERI	st3	100226_07	A	NE	top	98.47	1.227	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100226_07	A	NE	bottom	8.09	1.717	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100226_07	A	NE	hillslope	-1.37	0.1069	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100226_07	A	NE	Syx	3.29		4.170459	1.242425		13.29205	
JapanCERI	st3	100301_08	A	NE	top	91.93	1.105	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100301_08	A	NE	bottom	3.591	2.202	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100301_08	A	NE	hillslope	-0.8333	0.05743	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100301_08	A	NE	Syx	2.429		4.170459	1.242425		13.29205	
JapanCERI	st3	100303_09	A	NE	top	109.3	1.693	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100303_09	A	NE	bottom	2.993	3.292	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100303_09	A	NE	hillslope	-1.057	0.1022	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100303_09	A	NE	Syx	4.511		4.170459	1.242425		13.29205	
JapanCERI	st3	100305_10	A	NE	top	96.27	1.044	103.7112	2.882631	67.45473	139.9677	
JapanCERI	st3	100305_10	A	NE	bottom	10.33	1.984	2.480819	1.020515	-9.67272	14.63436	
JapanCERI	st3	100305_10	A	NE	hillslope	-0.9508	0.0657	-1.0236	0.03048	-1.7753	-0.2719	
JapanCERI	st3	100305_10	A	NE	Syx	2.546		4.170459	1.242425		13.29205	
Lovelace	st1	8-Jan-09	A	NE	top	129.2	3.874	103.7112	2.882631	67.45473	139.9677	
Lovelace	st1	8-Jan-09	A	NE	bottom	-2.478	6.22	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st1	8-Jan-09	A	NE	hillslope	-0.8036	0.1117	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st1	8-Jan-09	A	NE	Syx	7.628		4.170459	1.242425		13.29205	
Lovelace	st1	13-Jan-09	A	NE	top	106	2.212	103.7112	2.882631	67.45473	139.9677	
Lovelace	st1	13-Jan-09	A	NE	bottom	4.209	4.018	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st1	13-Jan-09	A	NE	hillslope	-0.9151	0.1078	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st1	13-Jan-09	A	NE	Syx	5.143		4.170459	1.242425		13.29205	
Lovelace	st1	16-Jan-09	A	NE	top	90.95	1.971	103.7112	2.882631	67.45473	139.9677	
Lovelace	st1	16-Jan-09	A	NE	bottom	-4.838	3.792	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st1	16-Jan-09	A	NE	hillslope	-0.8641	0.09744	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st1	16-Jan-09	A	NE	Syx	4.438		4.170459	1.242425		13.29205	
Lovelace	st12	ABC Coded_12-Nov-09	A	NE	top	96.86	2.655	103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	ABC Coded_12-Nov-09	A	NE	bottom	7.114	5.749	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_12-Nov-09	A	NE	hillslope	-0.9844	0.1851	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_12-Nov-09	A	NE	Syx	6.934		4.170459	1.242425		13.29205	
Lovelace	st12	ABC Coded_23-Sep-09	A	NE	top	128.9	4.224	103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	ABC Coded_23-Sep-09	A	NE	bottom	11.28	7.69	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_23-Sep-09	A	NE	hillslope	-1.557	0.3936	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_23-Sep-09	A	NE	Syx	13.3		4.170459	1.242425		13.29205	Above
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	NE	top	102.5	2.322	103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	NE	bottom	2.996	3.97	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	NE	hillslope	-0.9413	0.116	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_7-Apr-10 #1	A	NE	Syx	5.403		4.170459	1.242425		13.29205	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	NE	top	98.91	2.104	103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	NE	bottom	6.769	3.388	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	NE	hillslope	-1.014	0.1218	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_7-Apr-10 #2	A	NE	Syx	5.054		4.170459	1.242425		13.29205	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	NE	top	109.9	2.227	103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	NE	bottom	0.1532	3.261	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	NE	hillslope	-0.7911	0.07128	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	A	NE	Syx	4.161		4.170459	1.242425		13.29205	
Lovelace	st2	4-May-09	A	NE	top	127.2	3.786	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	4-May-09	A	NE	bottom	-0.5801	8.416	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	4-May-09	A	NE	hillslope	-0.8255	0.144	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	4-May-09	A	NE	Syx	8.494		4.170459	1.242425		13.29205	
Lovelace	st2	5-May-09	A	NE	top	90.58	2.59	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	5-May-09	A	NE	bottom	6.066	5.364	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	5-May-09	A	NE	hillslope	-1.061	0.2072	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	5-May-09	A	NE	Syx	7.066		4.170459	1.242425		13.29205	
Lovelace	st2	6-May-09	A	NE	top	151.6	3.131	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st2	6-May-09	A	NE	bottom	-12.24	7.516	2.480819	1.020515	-9.67272	14.63436	Below
Lovelace	st2	6-May-09	A	NE	hillslope	-0.7215	0.07895	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	6-May-09	A	NE	Syx	6.173		4.170459	1.242425		13.29205	
Lovelace	st2	8-May-09	A	NE	top	120.4	7.842	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	8-May-09	A	NE	bottom	-7.09	35.45	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	8-May-09	A	NE	hillslope	-0.7261	0.3681	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	8-May-09	A	NE	Syx	17.13		4.170459	1.242425		13.29205	Above
Lovelace	st2	17-Mar-09	A	NE	top	108.6	3.119	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	17-Mar-09	A	NE	bottom	1.122	4.755	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st2	17-Mar-09	A	NE	hillslope	-1.301	0.2173	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	17-Mar-09	A	NE	Syx	8.482		4.170459	1.242425		13.29205	
Lovelace	st2	26-Feb-09	A	NE	top	106.7	9.223	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	26-Feb-09	A	NE	bottom	12.4	9.787	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	26-Feb-09	A	NE	hillslope	-0.8752	0.3349	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	26-Feb-09	A	NE	Syx	16.3		4.170459	1.242425		13.29205	Above
Lovelace	st2	27-Feb-09	A	NE	top	134.5	6.488	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	27-Feb-09	A	NE	bottom	15.88	8.668	2.480819	1.020515	-9.67272	14.63436	Above
Lovelace	st2	27-Feb-09	A	NE	hillslope	-0.9564	0.2414	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	27-Feb-09	A	NE	Syx	13.73		4.170459	1.242425		13.29205	Above
Lovelace	st3	1-Jul-09	A	NE	top	133.3	2.473	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	1-Jul-09	A	NE	bottom	9.744	4.068	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	1-Jul-09	A	NE	hillslope	-0.9787	0.1028	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	1-Jul-09	A	NE	Syx	5.841		4.170459	1.242425		13.29205	
Lovelace	st3	1-Jun-09	A	NE	top	106.5	5.324	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	1-Jun-09	A	NE	bottom	-2.054	8.849	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	1-Jun-09	A	NE	hillslope	-0.9864	0.2564	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	1-Jun-09	A	NE	Syx	12.7		4.170459	1.242425		13.29205	
Lovelace	st3	4-Jun-09	A	NE	top	110.8	1.862	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	4-Jun-09	A	NE	bottom	3.913	3.107	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	4-Jun-09	A	NE	hillslope	-0.9224	0.08276	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	4-Jun-09	A	NE	Syx	4.221		4.170459	1.242425		13.29205	
Lovelace	st3	8-Jun-09	A	NE	top	108	3.45	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	8-Jun-09	A	NE	bottom	7.854	5.861	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	8-Jun-09	A	NE	hillslope	-0.8701	0.1521	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	8-Jun-09	A	NE	Syx	7.486		4.170459	1.242425		13.29205	
Lovelace	st3	10-Jul-09	A	NE	top	112.4	1.672	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	10-Jul-09	A	NE	bottom	-8.031	3.515	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	10-Jul-09	A	NE	hillslope	-0.7327	0.0542	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	10-Jul-09	A	NE	Syx	3.249		4.170459	1.242425		13.29205	
Lovelace	st3	10-Jun-09	A	NE	top	116.9	1.91	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	10-Jun-09	A	NE	bottom	0.389	3.198	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	10-Jun-09	A	NE	hillslope	-0.831	0.06705	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	10-Jun-09	A	NE	Syx	3.949		4.170459	1.242425		13.29205	
Lovelace	st3	11-Jun-09	A	NE	top	134.3	2.186	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	11-Jun-09	A	NE	bottom	3.828	3.643	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	11-Jun-09	A	NE	hillslope	-0.8743	0.07357	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	11-Jun-09	A	NE	Syx	4.729		4.170459	1.242425		13.29205	
Lovelace	st3	15-Jun-09	A	NE	top	116.7	3.711	103.7112	2.882631	67.45473	139.9677	
Lovelace	st3	15-Jun-09	A	NE	bottom	5.323	6.178	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	15-Jun-09	A	NE	hillslope	-0.8497	0.1403	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	15-Jun-09	A	NE	Syx	7.819		4.170459	1.242425		13.29205	
Missouri	st1	4001 2m	A	NE	top	103.7	2.701	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4001 2m	A	NE	bottom	0.5439	5.112	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st1	4001 2m	A	NE	hillslope	-0.8357	0.1167	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4001 2m	A	NE	Syx	5.86		4.170459	1.242425		13.29205	
Missouri	st1	4001 final	A	NE	top	107.4	2.183	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4001 final	A	NE	bottom	2.025	4.022	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	4001 final	A	NE	hillslope	-0.8993	0.1011	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4001 final	A	NE	Syx	5.025		4.170459	1.242425		13.29205	
Missouri	st1	4002 final	A	NE	top	101.1	1.684	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4002 final	A	NE	bottom	1.257	3.122	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	4002 final	A	NE	hillslope	-1.014	0.09853	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4002 final	A	NE	Syx	4.281		4.170459	1.242425		13.29205	
Missouri	st1	4003 final	A	NE	top	113.6	5.61	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4003 final	A	NE	bottom	10.18	9.869	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	4003 final	A	NE	hillslope	-1.087	0.3381	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4003 final	A	NE	Syx	14.66		4.170459	1.242425		13.29205	Above
Missouri	st1	4005 final	A	NE	top	104.7	3.171	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4005 final	A	NE	bottom	-3.781	7.638	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	4005 final	A	NE	hillslope	-0.7609	0.1316	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4005 final	A	NE	Syx	6.65		4.170459	1.242425		13.29205	
Missouri	st1	4006 final	A	NE	top	100.9	2.341	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4006 final	A	NE	bottom	2.717	4.757	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	4006 final	A	NE	hillslope	-1.099	0.1674	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4006 final	A	NE	Syx	6.503		4.170459	1.242425		13.29205	
Missouri	st1	4007 final	A	NE	top	95.21	2.747	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	4007 final	A	NE	bottom	0.438	6.587	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	4007 final	A	NE	hillslope	-0.9226	0.1606	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	4007 final	A	NE	Syx	6.659		4.170459	1.242425		13.29205	
Missouri	st1	5003 stds only w2	A	NE	top	99.19	5.735	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	5003 stds only w2	A	NE	bottom	9.199	7.013	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	5003 stds only w2	A	NE	hillslope	-0.8534	0.2262	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	5003 stds only w2	A	NE	Syx	10.62		4.170459	1.242425		13.29205	
Missouri	st1	5007 stds only_NE	A	NE	top	104	2.544	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	5007 stds only_NE	A	NE	bottom	6.313	3.969	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	5007 stds only_NE	A	NE	hillslope	-0.9358	0.1214	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	5007 stds only_NE	A	NE	Syx	5.675		4.170459	1.242425		13.29205	
Missouri	st1	5010 stds only w2	A	NE	top	99.46	1.065	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	5010 stds only w2	A	NE	bottom	-1.499	1.139	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	5010 stds only w2	A	NE	hillslope	-1.063	0.04894	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	5010 stds only w2	A	NE	Syx	2.182		4.170459	1.242425		13.29205	
Missouri	st2	5006 no del	A	NE	top	97.13	2.417	103.7112	2.882631	67.45473	139.9677	
Missouri	st2	5006 no del	A	NE	bottom	0.8222	4.327	2.480819	1.020515	-9.67272	14.63436	
Missouri	st2	5006 no del	A	NE	hillslope	-1.103	0.1615	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st2	5006 no del	A	NE	Syx	6.419		4.170459	1.242425		13.29205	
Missouri	st2	5008 default	A	NE	top	98.77	2.215	103.7112	2.882631	67.45473	139.9677	
Missouri	st2	5008 default	A	NE	bottom	5.326	4.301	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st2	5008 default	A	NE	hillslope	-1.329	0.2113	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st2	5008 default	A	NE	Syx	6.724		4.170459	1.242425		13.29205	
Missouri	st2	5009 no deletion	A	NE	top	110.1	1.91	103.7112	2.882631	67.45473	139.9677	
Missouri	st2	5009 no deletion	A	NE	bottom	-1.819	4.729	2.480819	1.020515	-9.67272	14.63436	
Missouri	st2	5009 no deletion	A	NE	hillslope	-0.9623	0.1138	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st2	5009 no deletion	A	NE	Syx	5.055		4.170459	1.242425		13.29205	
Missouri	st3	1-7_6005 final	A	NE	top	107.2	2.341	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	1-7_6005 final	A	NE	bottom	-2.504	4.605	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	1-7_6005 final	A	NE	hillslope	-0.9897	0.1114	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	1-7_6005 final	A	NE	Syx	4.345		4.170459	1.242425		13.29205	
Missouri	st3	1-7_6006 final	A	NE	top	94.29	2.937	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	1-7_6006 final	A	NE	bottom	8.546	3.607	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	1-7_6006 final	A	NE	hillslope	-1.534	0.2728	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	1-7_6006 final	A	NE	Syx	7.067		4.170459	1.242425		13.29205	
Missouri	st3	1-7_6007 final	A	NE	top	107.5	2.586	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	1-7_6007 final	A	NE	bottom	0.4982	4.759	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	1-7_6007 final	A	NE	hillslope	-1.154	0.1553	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	1-7_6007 final	A	NE	Syx	5.434		4.170459	1.242425		13.29205	
Missouri	st3	6502 final	A	NE	top	102.4	4.543	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	6502 final	A	NE	bottom	-0.7623	8.73	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	6502 final	A	NE	hillslope	-0.9926	0.2557	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	6502 final	A	NE	Syx	11.51		4.170459	1.242425		13.29205	
Missouri	st3	6503 final	A	NE	top	96.59	3.634	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	6503 final	A	NE	bottom	-0.1095	4.316	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	6503 final	A	NE	hillslope	-1.157	0.2101	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	6503 final	A	NE	Syx	8.253		4.170459	1.242425		13.29205	
Missouri	st3	6504 final	A	NE	top	87.49	2.923	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	6504 final	A	NE	bottom	3.782	5.399	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	6504 final	A	NE	hillslope	-1.4	0.3261	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	6504 final	A	NE	Syx	8.894		4.170459	1.242425		13.29205	
Missouri	st3	8-14_6009 final	A	NE	top	88.51	2.796	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	8-14_6009 final	A	NE	bottom	0.1349	3.2	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	8-14_6009 final	A	NE	hillslope	-1.397	0.2349	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	8-14_6009 final	A	NE	Syx	6.902		4.170459	1.242425		13.29205	
Missouri	st3	8-14_6010 final	A	NE	top	83.85	2.936	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	8-14_6010 final	A	NE	bottom	-0.08222	3.079	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	8-14_6010 final	A	NE	hillslope	-0.9721	0.1398	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	8-14_6010 final	A	NE	Syx	5.598		4.170459	1.242425		13.29205	
Missouri	st3	8-14_6011 final	A	NE	top	107.2	3.792	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	8-14_6011 final	A	NE	bottom	8.431	8.436	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	8-14_6011 final	A	NE	hillslope	-1.137	0.2641	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	8-14_6011 final	A	NE	Syx	8.213		4.170459	1.242425		13.29205	
Missouri	st4	2206	A	NE	top	96.23	3.468	103.7112	2.882631	67.45473	139.9677	
Missouri	st4	2206	A	NE	bottom	-3.815	3.3	2.480819	1.020515	-9.67272	14.63436	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st4	2206	A	NE	hillslope	-0.8625	0.1099	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st4	2206	A	NE	Syx	5.734		4.170459	1.242425		13.29205	
Missouri	st4	2210	A	NE	top	94.34	4.082	103.7112	2.882631	67.45473	139.9677	
Missouri	st4	2210	A	NE	bottom	-6.481	3.261	2.480819	1.020515	-9.67272	14.63436	
Missouri	st4	2210	A	NE	hillslope	-1.167	0.1856	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st4	2210	A	NE	Syx	7.517		4.170459	1.242425		13.29205	
Missouri	st4	2211	A	NE	top	91.42	2.128	103.7112	2.882631	67.45473	139.9677	
Missouri	st4	2211	A	NE	bottom	1.019	2.157	2.480819	1.020515	-9.67272	14.63436	
Missouri	st4	2211	A	NE	hillslope	-1.407	0.1644	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st4	2211	A	NE	Syx	4.986		4.170459	1.242425		13.29205	
Missouri	st4	2301	A	NE	top	83.63	4.119	103.7112	2.882631	67.45473	139.9677	
Missouri	st4	2301	A	NE	bottom	7.804	4.57	2.480819	1.020515	-9.67272	14.63436	
Missouri	st4	2301	A	NE	hillslope	-1.085	0.2649	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st4	2301	A	NE	Syx	8.7		4.170459	1.242425		13.29205	
Missouri	st4	2302	A	NE	top	98.03	2.712	103.7112	2.882631	67.45473	139.9677	
Missouri	st4	2302	A	NE	bottom	-0.965	2.406	2.480819	1.020515	-9.67272	14.63436	
Missouri	st4	2302	A	NE	hillslope	-1.071	0.1171	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st4	2302	A	NE	Syx	5.08		4.170459	1.242425		13.29205	
Missouri	st4	2305	A	NE	top	79.57	5.721	103.7112	2.882631	67.45473	139.9677	
Missouri	st4	2305	A	NE	bottom	7.677	5.342	2.480819	1.020515	-9.67272	14.63436	
Missouri	st4	2305	A	NE	hillslope	-1.52	0.6038	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st4	2305	A	NE	Syx	13.33		4.170459	1.242425		13.29205	Above

Table E-4. CERI Assay, Parameter Estimates for the Unacceptable E2 Runs and the Status of Tolerance Interval Screening.

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st2	20090218	U	NE	top	111.8	22.03	103.7112	2.882631	67.45473	139.9677	
Ceetox	st2	20090218	U	NE	bottom	-6366	573251	2.480819	1.020515	-9.67272	14.63436	Below
Ceetox	st2	20090218	U	NE	hillslope	-0.2534	0.3259	-1.0236	0.03048	-1.7753	-0.2719	Above
Ceetox	st2	20090218	U	NE	Syx	10.35		4.170459	1.242425		13.29205	
Ceetox	st3	20090228A	U	NE	top	101.2	0.9478	103.7112	2.882631	67.45473	139.9677	
Ceetox	st3	20090228A	U	NE	bottom			2.480819	1.020515	-9.67272	14.63436	
Ceetox	st3	20090228A	U	NE	hillslope			-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st3	20090228A	U	NE	Syx	3.669		4.170459	1.242425		13.29205	
Ceetox	st3	20090305A	U	NE	top	106.5	1.628	103.7112	2.882631	67.45473	139.9677	
Ceetox	st3	20090305A	U	NE	bottom			2.480819	1.020515	-9.67272	14.63436	
Ceetox	st3	20090305A	U	NE	hillslope			-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st3	20090305A	U	NE	Syx	6.3		4.170459	1.242425		13.29205	
Ceetox	st3	20090401A	U	NE	top	104.7	1.002	103.7112	2.882631	67.45473	139.9677	
Ceetox	st3	20090401A	U	NE	bottom	3.905	35.94	2.480819	1.020515	-9.67272	14.63436	
Ceetox	st3	20090401A	U	NE	hillslope	-0.95	0.2703	-1.0236	0.03048	-1.7753	-0.2719	
Ceetox	st3	20090401A	U	NE	Syx	2.934		4.170459	1.242425		13.29205	
Freyberger	st3	CODE A1	U	NE	top	69.01	7.757	103.7112	2.882631	67.45473	139.9677	
Freyberger	st3	CODE A1	U	NE	bottom	1.745	11.05	2.480819	1.020515	-9.67272	14.63436	
Freyberger	st3	CODE A1	U	NE	hillslope	-1.734	1.314	-1.0236	0.03048	-1.7753	-0.2719	
Freyberger	st3	CODE A1	U	NE	Syx	23.09		4.170459	1.242425		13.29205	Above
Lovelace	st1	6-Jan-09	U	NE	top	191.5	4.847	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st1	6-Jan-09	U	NE	bottom	-4.775	8.932	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st1	6-Jan-09	U	NE	hillslope	-0.7801	0.09763	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st1	6-Jan-09	U	NE	Syx	9.716		4.170459	1.242425		13.29205	
Lovelace	st1	31-Dec-08	U	NE	top	58.7	1.206	103.7112	2.882631	67.45473	139.9677	Below
Lovelace	st1	31-Dec-08	U	NE	bottom	3.909	2.279	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st1	31-Dec-08	U	NE	hillslope	-0.8879	0.1072	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st1	31-Dec-08	U	NE	Syx	2.768		4.170459	1.242425		13.29205	
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	NE	top	234.3	4.935	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	NE	bottom	33.78	8.228	2.480819	1.020515	-9.67272	14.63436	Above
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	NE	hillslope	-1.192	0.1697	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	14May10_Additional Dilution CERI charcoal with CERI SOLVENT	U	NE	Syx	13.33		4.170459	1.242425		13.29205	Above
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	NE	top			103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	NE	bottom			2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	NE	hillslope			-1.0236	0.03048	-1.7753	-0.2719	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st12	14May10_Additional Dilution+FWA Char A only	U	NE	Syx			4.170459	1.242425		13.29205	
Lovelace	st12	A dil variations_04Dec-09	U	NE	top			103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	A dil variations_04Dec-09	U	NE	bottom	7.286	1.507	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	A dil variations_04Dec-09	U	NE	hillslope			-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	A dil variations_04Dec-09	U	NE	Syx	5.835		4.170459	1.242425		13.29205	
Lovelace	st12	ABC Coded_08-Dec-09	U	NE	top	149.1	2.641	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st12	ABC Coded_08-Dec-09	U	NE	bottom	18.31	4.71	2.480819	1.020515	-9.67272	14.63436	Above
Lovelace	st12	ABC Coded_08-Dec-09	U	NE	hillslope	-1.006	0.1136	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_08-Dec-09	U	NE	Syx	6.578		4.170459	1.242425		13.29205	
Lovelace	st12	ABC Coded_27-Oct-09	U	NE	top	166.4	14.92	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st12	ABC Coded_27-Oct-09	U	NE	bottom	-0.2932	43.24	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_27-Oct-09	U	NE	hillslope	-0.544	0.2644	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_27-Oct-09	U	NE	Syx	20.76		4.170459	1.242425		13.29205	Above
Lovelace	st12	ABC Coded_29	U	NE	top	121.4	9.715	103.7112	2.882631	67.45473	139.9677	
Lovelace	st12	ABC Coded_29	U	NE	bottom	20.13	10.65	2.480819	1.020515	-9.67272	14.63436	Above
Lovelace	st12	ABC Coded_29	U	NE	hillslope	-1.074	0.4576	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_29	U	NE	Syx	20.27		4.170459	1.242425		13.29205	Above
Lovelace	st12	ABC Coded_29-Jan-10	U	NE	top	167.1	13.83	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st12	ABC Coded_29-Jan-10	U	NE	bottom	0.8449	24.73	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st12	ABC Coded_29-Jan-10	U	NE	hillslope	-0.6491	0.2458	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st12	ABC Coded_29-Jan-10	U	NE	Syx	22.06		4.170459	1.242425		13.29205	Above
Lovelace	st2	3-Mar-09	U	NE	top	107.1	8.364	103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	3-Mar-09	U	NE	bottom	-4.838	8.499	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	3-Mar-09	U	NE	hillslope	-0.6481	0.1618	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	3-Mar-09	U	NE	Syx	10.58		4.170459	1.242425		13.29205	
Lovelace	st2	5-Mar-09	U	NE	top	237.7	24.15	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st2	5-Mar-09	U	NE	bottom	0.1382	34.51	2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	5-Mar-09	U	NE	hillslope	-0.6561	0.2685	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	5-Mar-09	U	NE	Syx	36.1		4.170459	1.242425		13.29205	Above
Lovelace	st2	7-May-09	U	NE	top			103.7112	2.882631	67.45473	139.9677	
Lovelace	st2	7-May-09	U	NE	bottom			2.480819	1.020515	-9.67272	14.63436	
Lovelace	st2	7-May-09	U	NE	hillslope			-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	7-May-09	U	NE	Syx			4.170459	1.242425		13.29205	
Lovelace	st2	11-Mar-09	U	NE	top	254.7	750.7	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st2	11-Mar-09	U	NE	bottom	-1.49E+07	5.41E+12	2.480819	1.020515	-9.67272	14.63436	Below
Lovelace	st2	11-Mar-09	U	NE	hillslope	-0.07932	0.6872	-1.0236	0.03048	-1.7753	-0.2719	Above
Lovelace	st2	11-Mar-09	U	NE	Syx	27.15		4.170459	1.242425		13.29205	Above
Lovelace	st2	27-Mar-09	U	NE	top	220.7	7.493	103.7112	2.882631	67.45473	139.9677	Above
Lovelace	st2	27-Mar-09	U	NE	bottom	15.05	11.61	2.480819	1.020515	-9.67272	14.63436	Above
Lovelace	st2	27-Mar-09	U	NE	hillslope	-1.146	0.2279	-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st2	27-Mar-09	U	NE	Syx	19.16		4.170459	1.242425		13.29205	Above
Lovelace	st3	12-Jun-09	U	NE	top			103.7112	2.882631	67.45473	139.9677	

Laboratory	SubTask	TestID	Acceptability	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st3	12-Jun-09	U	NE	bottom			2.480819	1.020515	-9.67272	14.63436	
Lovelace	st3	12-Jun-09	U	NE	hillslope			-1.0236	0.03048	-1.7753	-0.2719	
Lovelace	st3	12-Jun-09	U	NE	Syx			4.170459	1.242425		13.29205	
Missouri	st1	5005 stds only w1	U	NE	top	108.8	4.13	103.7112	2.882631	67.45473	139.9677	
Missouri	st1	5005 stds only w1	U	NE	bottom	-3.313	8.179	2.480819	1.020515	-9.67272	14.63436	
Missouri	st1	5005 stds only w1	U	NE	hillslope	-0.6556	0.1171	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st1	5005 stds only w1	U	NE	Syx	6.883		4.170459	1.242425		13.29205	
Missouri	st3	1-7_6001 final	U	NE	top	106.7	2.819	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	1-7_6001 final	U	NE	bottom	3.695	1.655	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	1-7_6001 final	U	NE	hillslope	-1.19	0.1155	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	1-7_6001 final	U	NE	Syx	3.264		4.170459	1.242425		13.29205	
Missouri	st3	1-7_6002 final	U	NE	top	92.34	4.826	103.7112	2.882631	67.45473	139.9677	
Missouri	st3	1-7_6002 final	U	NE	bottom	2.384	3.649	2.480819	1.020515	-9.67272	14.63436	
Missouri	st3	1-7_6002 final	U	NE	hillslope	-1.627	0.3676	-1.0236	0.03048	-1.7753	-0.2719	
Missouri	st3	1-7_6002 final	U	NE	Syx	9.184		4.170459	1.242425		13.29205	

Table E-5. CERi Assay, Parameter Estimates for Log₁₀RBA for the Acceptable E2 and NE Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
Ceetox	st1	20090207	-2.844	0.040076	-2.75075	0.080892	-3.39725	-2.10425		-8.784	0.03572	-5.94	0.01817	A/A
Ceetox	st1	20090208	-2.917	0.046323	-2.75075	0.080892	-3.39725	-2.10425		-8.772	0.04053	-5.855	0.02243	A/A
Ceetox	st1	20090211	-3.006	0.045359	-2.75075	0.080892	-3.39725	-2.10425		-8.737	0.03697	-5.731	0.02628	A/A
Ceetox	st2	20090215	-2.831	0.038658	-2.75075	0.080892	-3.39725	-2.10425		-8.728	0.03409	-5.897	0.01823	A/A
Ceetox	st2	20090221	-2.501	0.04935	-2.75075	0.080892	-3.39725	-2.10425		-8.691	0.04526	-6.19	0.01967	A/A
Ceetox	st3	20090310A	-2.839	0.038542	-2.75075	0.080892	-3.39725	-2.10425		-8.64	0.03485	-5.801	0.01646	A/A
Ceetox	st4	20090903A	-2.823	0.045827	-2.75075	0.080892	-3.39725	-2.10425		-8.349	0.03842	-5.526	0.02498	A/A
Ceetox	st4	20090905A	-2.86	0.039669	-2.75075	0.080892	-3.39725	-2.10425		-8.654	0.03676	-5.794	0.01491	A/A
Ceetox	st4	20090907A	-2.868	0.109817	-2.75075	0.080892	-3.39725	-2.10425		-8.413	0.06753	-5.545	0.0866	A/A
Ceetox	st4	20090930A	-2.852	0.083593	-2.75075	0.080892	-3.39725	-2.10425		-8.391	0.05499	-5.539	0.06296	A/A
Freyberger	st2	B	-2.683	0.01663	-2.75075	0.080892	-3.39725	-2.10425		-9.003	0.008736	-6.32	0.01415	A/A
Freyberger	st2	C	-2.632	0.026099	-2.75075	0.080892	-3.39725	-2.10425		-9.024	0.008774	-6.392	0.02458	A/A
Freyberger	st2	D	-2.535	0.018785	-2.75075	0.080892	-3.39725	-2.10425		-9.024	0.00885	-6.489	0.01657	A/A
Freyberger	st2	E	-2.483	0.020139	-2.75075	0.080892	-3.39725	-2.10425		-9.029	0.01041	-6.546	0.01724	A/A
Freyberger	st2	F	-2.527	0.017178	-2.75075	0.080892	-3.39725	-2.10425		-9.102	0.01092	-6.575	0.01326	A/A
Freyberger	st2	G	-2.388	0.024714	-2.75075	0.080892	-3.39725	-2.10425		-8.948	0.02241	-6.56	0.01042	A/A
Freyberger	st3	CODE A2	-2.456	0.019158	-2.75075	0.080892	-3.39725	-2.10425		-9.09	0.01653	-6.634	0.009684	A/A
Freyberger	st3	CODE A3	-2.419	0.024026	-2.75075	0.080892	-3.39725	-2.10425		-9.093	0.01468	-6.674	0.01902	A/A
Freyberger	st3	CODE B1	-2.447	0.025841	-2.75075	0.080892	-3.39725	-2.10425		-9.101	0.01253	-6.654	0.0226	A/A
Freyberger	st3	CODE B2	-2.429	0.020743	-2.75075	0.080892	-3.39725	-2.10425		-9.052	0.0144	-6.623	0.01493	A/A
Freyberger	st3	CODE B3	-	0.01898	-	0.08089	-	-		-9.095	0.01409	-6.636	0.01273	A/A

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
r			2.459	9	2.75075	2	3.39725	2.10425						
Freyberger	st3	CODE C1	- 2.441	0.02330 7	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.007	0.01658	-6.566	0.01638	A/A
Freyberger	st3	CODE C2	- 2.411	0.02080 7	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.023	0.01021	-6.612	0.01813	A/A
Freyberger	st3	CODE C3	- 2.372	0.02059	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.04	0.01281	-6.668	0.01612	A/A
JapanCERI	st1	091224_01	- 2.674	0.03447 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.957	0.02182	-6.283	0.02669	A/A
JapanCERI	st1	100107_02	- 2.828	0.03874 3	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.986	0.01757	-6.158	0.03453	A/A
JapanCERI	st1	100108_03	- 2.857	0.04622 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.959	0.03017	-6.102	0.03502	A/A
JapanCERI	st2	100119_01	- 2.675	0.08199 8	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.67	0.0559	-5.995	0.05999	A/A
JapanCERI	st2	100126_02	- 2.606	0.06082 9	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.804	0.02659	-6.198	0.05471	A/A
JapanCERI	st2	100129_03	- 2.548	0.04885 2	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.835	0.04417	-6.287	0.02087	A/A
JapanCERI	st3	100203_01	- 2.597	0.0391	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.695	0.02244	-6.098	0.03202	A/A
JapanCERI	st3	100208_02	- 2.526	0.03578 2	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.7	0.02265	-6.174	0.0277	A/A
JapanCERI	st3	100215_03	- 2.462	0.03136 5	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.793	0.02497	-6.331	0.01898	A/A
JapanCERI	st3	100223_04	- 2.488	0.03714 6	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.891	0.02889	-6.403	0.02335	A/A
JapanCERI	st3	100224_05	- 2.521	0.0321	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.803	0.02614	-6.282	0.01863	A/A
JapanCERI	st3	100225_06	- 2.453	0.02491 5	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.858	0.02036	-6.405	0.01436	A/A
JapanCERI	st3	100226_07	- 2.488	0.02737 2	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.82	0.01667	-6.332	0.02171	A/A
JapanCERI	st3	100301_08	- 2.748	0.02488 5	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.828	0.01144	-6.08	0.0221	A/A
JapanCERI	st3	100303_09	- 2.838	0.03985 8	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.734	0.02525	-5.896	0.03084	A/A
JapanCERI	st3	100305_10	- 2.791	0.03163	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.761	0.02216	-5.97	0.02257	A/A
Lovelace	st1	13-Jan-09	- 3.286	0.05687	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.288	0.04072	-6.002	0.0397	A/A
Lovelace	st1	16-Jan-09	- 3.276	0.08587 9	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.475	0.07775	-6.199	0.03647	A/A
Lovelace	st12	ABC Coded_12-Nov-09	-	0.09258	-	0.08089	-	-		-8.576	0.07183	-5.857	0.05841	A/A

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
			2.719	1	2.75075	2	3.39725	2.10425						
Lovelace	st12	ABC Coded_23-Sep-09	-2.73	0.09166	2.75075	2	3.39725	2.10425		-8.557	0.05362	-5.827	0.07434	A/A
Lovelace	st12	ABC Coded_7-Apr-10 #1	-3.361	0.081367	2.75075	2	3.39725	2.10425		-9.468	0.07052	-6.107	0.04059	A/A
Lovelace	st12	ABC Coded_7-Apr-10 #2	-3.256	0.076268	2.75075	2	3.39725	2.10425		-9.422	0.06556	-6.166	0.03897	A/A
Lovelace	st12	ABC Coded_7-Apr-10 #3+triton	-3.201	0.08481	2.75075	2	3.39725	2.10425		-9.446	0.07859	-6.245	0.03188	A/A
Lovelace	st2	4-May-09	-3.119	0.068296	2.75075	2	3.39725	2.10425		-8.829	0.01981	-5.71	0.06536	A/A
Lovelace	st2	5-May-09	-2.819	0.091497	2.75075	2	3.39725	2.10425		-8.771	0.07092	-5.952	0.05781	A/A
Lovelace	st2	6-May-09	-3.155	0.053755	2.75075	2	3.39725	2.10425		-8.776	0.03158	-5.621	0.0435	A/A
Lovelace	st2	8-May-09	-3.149	0.189616	2.75075	2	3.39725	2.10425		-8.542	0.06169	-5.393	0.1793	A/A
Lovelace	st2	26-Feb-09	-2.696	0.161642	2.75075	2	3.39725	2.10425		-9.178	0.07868	-6.482	0.1412	A/A
Lovelace	st2	27-Feb-09	-2.941	0.121656	2.75075	2	3.39725	2.10425		-8.963	0.05342	-6.022	0.1093	A/A
Lovelace	st3	1-Jun-09	-2.681	0.089891	2.75075	2	3.39725	2.10425		-8.83	0.03126	-6.149	0.08428	A/A
Lovelace	st3	4-Jun-09	-2.859	0.07681	2.75075	2	3.39725	2.10425		-8.916	0.07025	-6.057	0.03106	A/A
Lovelace	st3	8-Jun-09	-2.793	0.066161	2.75075	2	3.39725	2.10425		-8.812	0.02213	-6.019	0.06235	A/A
Lovelace	st3	10-Jul-09	-2.971	0.049441	2.75075	2	3.39725	2.10425		-8.946	0.04273	-5.975	0.02487	A/A
Lovelace	st3	10-Jun-09	-2.999	0.036419	2.75075	2	3.39725	2.10425		-9.043	0.02207	-6.044	0.02897	A/A
Lovelace	st3	11-Jun-09	-3.078	0.052649	2.75075	2	3.39725	2.10425		-8.976	0.04069	-5.898	0.03341	A/A
Lovelace	st3	15-Jun-09	-3.016	0.079451	2.75075	2	3.39725	2.10425		-9.014	0.05081	-5.998	0.06108	A/A
Missouri	st1	4001 2m	-3.058	0.068821	2.75075	2	3.39725	2.10425		-9.091	0.05069	-6.033	0.04655	A/A
Missouri	st1	4001 final	-3.126	0.064928	2.75075	2	3.39725	2.10425		-9.126	0.05279	-6	0.0378	A/A
Missouri	st1	4002 final	-3.074	0.044688	2.75075	2	3.39725	2.10425		-9.108	0.03267	-6.034	0.03049	A/A
Missouri	st1	4003 final	-2.931	0.131337	2.75075	2	3.39725	2.10425		-8.85	0.07644	-5.919	0.1068	A/A
Missouri	st1	4005 final	-	0.06922	-	0.08089	-	-		-9.133	0.04053	-5.886	0.05612	A/A

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
			3.247	5	2.75075	2	3.39725	2.10425						
Missouri	st1	4006 final	- 3.179	0.05781 9	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.081	0.0356	-5.902	0.04556	A/A
Missouri	st1	4007 final	- 3.127	0.06489 3	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.15	0.03703	-6.023	0.05329	A/A
Missouri	st1	5003 stds only w2	- 2.536	0.10098	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.974	0.0387	-6.438	0.09327	A/A
Missouri	st1	5007 stds only_NE	- 2.975	0.05014	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.138	0.02382	-6.163	0.04412	A/A
Missouri	st1	5010 stds only w2	-2.58	0.03086 1	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.274	0.02714	-6.694	0.01469	A/A
Missouri	st2	5006 no del	- 3.101	0.04933 9	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.201	0.02133	-6.1	0.04449	A/A
Missouri	st2	5008 default	- 3.036	0.05183 1	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.962	0.02798	-5.926	0.04363	A/A
Missouri	st2	5009 no deletion	- 3.299	0.04490 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.015	0.02509	-5.716	0.03724	A/A
Missouri	st3	1-7_6005 final	- 2.431	0.03884 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.063	0.02438	-6.632	0.03024	A/A
Missouri	st3	1-7_6006 final	- 2.357	0.06242 6	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.109	0.04206	-6.752	0.04613	A/A
Missouri	st3	1-7_6007 final	- 2.274	0.04914 9	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.872	0.03427	-6.598	0.03523	A/A
Missouri	st3	6502 final	- 3.114	0.08638 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.119	0.03087	-6.005	0.08068	A/A
Missouri	st3	6503 final	- 2.463	0.05931 6	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.052	0.02148	-6.589	0.05529	A/A
Missouri	st3	6504 final	- 2.894	0.09810 7	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.976	0.07577	-6.082	0.06232	A/A
Missouri	st3	8-14_6009 final	- 2.586	0.05855 5	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.261	0.03543	-6.675	0.04662	A/A
Missouri	st3	8-14_6010 final	- 2.574	0.06443 8	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.447	0.03986	-6.873	0.05063	A/A
Missouri	st3	8-14_6011 final	- 2.554	0.07260 8	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-8.979	0.03724	-6.425	0.06233	A/A
Missouri	st4	2206	- 2.743	0.06819 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.623	0.05163	-6.88	0.04455	A/A
Missouri	st4	2210	- 2.866	0.08960 2	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.92	0.0748	-7.054	0.04933	A/A
Missouri	st4	2211	- 2.502	0.04699 5	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.288	0.03404	-6.786	0.0324	A/A
Missouri	st4	2301	- 2.575	0.08923 4	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.302	0.04234	-6.727	0.07855	A/A
Missouri	st4	2302	-	0.05041	-	0.08089	-	-		-9.27	0.03649	-6.905	0.03479	A/A

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
			2.365	7	2.75075	2	3.39725	2.10425						
Missouri	st4	2305	- 2.827	0.13226 1	- 2.75075	0.08089 2	- 3.39725	- 2.10425		-9.766	0.07677	-6.939	0.1077	A/A

Table E-6. CERl Assay, Parameter Estimates for Log₁₀RBA for the Unacceptable E2 or NE Runs and the Status of Tolerance Interval Screening.

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
Ceetox	st3	20090228A	-	-	2.75075	0.080892	-3.39725	-2.10425		-8.721	0.04952			A/U
Ceetox	st3	20090305A	-	-	2.75075	0.080892	-3.39725	-2.10425		-8.57	0.03792			A/U
Ceetox	st3	20090401A	-3.85	0.089761	2.75075	0.080892	-3.39725	-2.10425	Below	-8.605	0.04864	-4.755	0.07544	A/U
Freyberger	st3	CODE A1	-	0.223082	2.75075	0.080892	-3.39725	-2.10425		-9.091	0.01982	-6.588	0.2222	A/U
Lovelace	st1	6-Jan-09	-2.94	0.21438	2.75075	0.080892	-3.39725	-2.10425		-8.53	0.2059	-5.59	0.0597	A/U
Lovelace	st12	ABC Coded_29	-	0.208781	2.75075	0.080892	-3.39725	-2.10425		-8.853	0.1195	-6.297	0.1712	A/U
Lovelace	st12	ABC Coded_29-Jan-10	-	0.186811	2.75075	0.080892	-3.39725	-2.10425		-8.966	0.05824	-5.609	0.1775	A/U
Lovelace	st2	27-Mar-09	-	0.204499	2.75075	0.080892	-3.39725	-2.10425		-8.685	0.1747	-5.658	0.1063	A/U
Missouri	st1	5005 stds only w1	-	0.06556	2.75075	0.080892	-3.39725	-2.10425		-8.908	0.02356	-6.034	0.06118	A/U
Missouri	st3	1-7_6001 final	-	0.035742	2.75075	0.080892	-3.39725	-2.10425	Above	-8.887	0.02856	-7.78	0.02149	A/U
Missouri	st3	1-7_6002 final	-	0.058979	2.75075	0.080892	-3.39725	-2.10425	Above	-9.041	0.01993	-7.344	0.05551	A/U
Lovelace	st12	14May10_JCS 10-15-10b	-	-	2.75075	0.080892	-3.39725	-2.10425						U/
Lovelace	st12	ABC Coded_20-Oct-09 JCS	-	-	2.75075	0.080892	-3.39725	-2.10425		-8.621	0.05071			U/
Ceetox	st3	20090415	-3.82	0.035772	2.75075	0.080892	-3.39725	-2.10425	Below	-9.548	0.02428	-5.728	0.02627	U/A
Freyberger	st2	A	-	-	2.75075	0.080892	-3.39725	-2.10425				-6.316	0.02109	U/A
Lovelace	st1	8-Jan-09	-	0.213338	2.75075	0.080892	-3.39725	-2.10425	Below	-9.432	0.2068	-6.027	0.05241	U/A
Lovelace	st2	17-Mar-09	-	2.988398	2.75075	0.080892	-3.39725	-2.10425		-9.431	2.988	-6.214	0.04875	U/A
Lovelace	st3	1-Jul-09	-	0.06375	2.75075	0.080892	-3.39725	-2.10425		-8.635	0.04795	-5.874	0.04201	U/A
Ceetox	st2	20090218	-	0.176905	2.75075	0.080892	-3.39725	-2.10425		-8.619	0.1012	-5.458	0.1451	U/U
Lovelace	st1	31-Dec-08	-	0.08268	2.75075	0.080892	-3.39725	-2.10425	Below	-10.99	0.04368	-6.878	0.0702	U/U
Lovelace	st12	14May10_Additional	-3.23	0.1481	-	0.080892	-3.39725	-2.10425		-8.51	0.07021	-5.28	0.1304	U/U

Laboratory	SubTask	TestID	Log RBA	Std Error (logRBA)	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	status	logic50 (E2)	Std Error (E2)	logic50 (NE)	Std Error (NE)	Acceptability (E2/NE)
		Dilution CERI charcoal with CERI SOLVENT			2.75075									
Lovelace	st12	14May10_Additional Dilution+FWA Char A only			- 2.75075	0.080892	-3.39725	-2.10425		-6.645	0.2498			U/U
Lovelace	st12	A dil variations_04Dec-09			- 2.75075	0.080892	-3.39725	-2.10425		-8.899	0.05278			U/U
Lovelace	st12	ABC Coded_08-Dec-09	- 3.085	0.190502	- 2.75075	0.080892	-3.39725	-2.10425		-8.694	0.1828	-5.609	0.05362	U/U
Lovelace	st12	ABC Coded_27-Oct-09	- 3.542	0.245144	- 2.75075	0.080892	-3.39725	-2.10425	Below	-8.721	0.1273	-5.179	0.2095	U/U
Lovelace	st2	3-Mar-09	- 2.722	0.123971	- 2.75075	0.080892	-3.39725	-2.10425		-9.429	0.088	-6.707	0.08732	U/U
Lovelace	st2	5-Mar-09	-2.93	0.24495	- 2.75075	0.080892	-3.39725	-2.10425		-8.447	0.0737	-5.517	0.2336	U/U
Lovelace	st2	7-May-09			- 2.75075	0.080892	-3.39725	-2.10425		-7.465	0.7192			U/U
Lovelace	st2	11-Mar-09			- 2.75075	0.080892	-3.39725	-2.10425				-5.715	0.2391	U/U
Lovelace	st3	12-Jun-09			- 2.75075	0.080892	-3.39725	-2.10425		-8.094	0.1784			U/U

Table E-7. FWA Parameter Estimates for the Acceptable E2 Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st1	Run20081123	A	E2	top	93.84	2.893	101.5967	0.923307	89.13837	114.0549	
Ceetox	st1	Run20081123	A	E2	bottom	2.026	2.335	0.323294	0.213272	-1.36457	2.011154	Above
Ceetox	st1	Run20081123	A	E2	hillslope	-1.553	0.2507	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st1	Run20081123	A	E2	Syx	7.218		4.11267	1.217787		12.36028	
Ceetox	st1	Run20081218	A	E2	top	103.8	4.947	101.5967	0.923307	89.13837	114.0549	
Ceetox	st1	Run20081218	A	E2	bottom	0.2938	2.791	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st1	Run20081218	A	E2	hillslope	-0.9607	0.1524	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st1	Run20081218	A	E2	Syx	7.773		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090124 BAD	A	E2	top	92.76	4.038	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090124 BAD	A	E2	bottom	0.6388	1.625	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st2	Run20090124 BAD	A	E2	hillslope	-0.9873	0.1121	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090124 BAD	A	E2	Syx	4.983		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090202 BAD	A	E2	top	90.99	2.99	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090202 BAD	A	E2	bottom	-0.05909	1.629	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st2	Run20090202 BAD	A	E2	hillslope	-0.9601	0.1005	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090202 BAD	A	E2	Syx	4.772		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090213 TEST4	A	E2	top	107.2	2.257	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090213 TEST4	A	E2	bottom	-2.691	1.863	0.323294	0.213272	-1.36457	2.011154	Below
Ceetox	st2	Run20090213 TEST4	A	E2	hillslope	-1.162	0.1536	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090213 TEST4	A	E2	Syx	6.149		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090213 TEST4_2	A	E2	top	106.6	1.968	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090213 TEST4_2	A	E2	bottom	0.8086	1.633	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st2	Run20090213 TEST4_2	A	E2	hillslope	-1.048	0.1133	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090213 TEST4_2	A	E2	Syx	5.239		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090223	A	E2	top	103.2	3.394	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090223	A	E2	bottom	1.997	2.831	0.323294	0.213272	-1.36457	2.011154	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st2	Run20090223	A	E2	hillslope	-1.122	0.1795	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090223	A	E2	Syx	7.854		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090307	A	E2	top	100.6	3.521	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090307	A	E2	bottom	3.225	2.697	0.323294	0.213272	-1.36457	2.011154	Above
Ceetox	st2	Run20090307	A	E2	hillslope	-1.413	0.2436	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090307	A	E2	Syx	8.252		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090326	A	E2	top	108.4	2.289	101.5967	0.923307	89.13837	114.0549	
Ceetox	st2	Run20090326	A	E2	bottom	1.837	1.69	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st2	Run20090326	A	E2	hillslope	-1.073	0.09723	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st2	Run20090326	A	E2	Syx	4.773		4.11267	1.217787		12.36028	
Ceetox	st3	Run20090418	A	E2	top	103.1	3.567	101.5967	0.923307	89.13837	114.0549	
Ceetox	st3	Run20090418	A	E2	bottom	2.253	2.595	0.323294	0.213272	-1.36457	2.011154	Above
Ceetox	st3	Run20090418	A	E2	hillslope	-1.249	0.1936	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st3	Run20090418	A	E2	Syx	7.762		4.11267	1.217787		12.36028	
Ceetox	st3	Run20090426	A	E2	top	113.2	5.313	101.5967	0.923307	89.13837	114.0549	
Ceetox	st3	Run20090426	A	E2	bottom	1.665	3.231	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st3	Run20090426	A	E2	hillslope	-0.9499	0.1565	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st3	Run20090426	A	E2	Syx	9.133		4.11267	1.217787		12.36028	
Ceetox	st3	Run20090505	A	E2	top	88.48	2.115	101.5967	0.923307	89.13837	114.0549	Below
Ceetox	st3	Run20090505	A	E2	bottom	0.5067	1.574	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st3	Run20090505	A	E2	hillslope	-1.21	0.1282	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st3	Run20090505	A	E2	Syx	4.633		4.11267	1.217787		12.36028	
Ceetox	st4	Run20090911A	A	E2	top	96.71	2.518	101.5967	0.923307	89.13837	114.0549	
Ceetox	st4	Run20090911A	A	E2	bottom	0.6804	1.546	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st4	Run20090911A	A	E2	hillslope	-1.142	0.1113	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st4	Run20090911A	A	E2	Syx	4.697		4.11267	1.217787		12.36028	
Ceetox	st4	Run20090914A	A	E2	top	94.99	2.73	101.5967	0.923307	89.13837	114.0549	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st4	Run20090914A	A	E2	bottom	2.322	2.07	0.323294	0.213272	-1.36457	2.011154	Above
Ceetox	st4	Run20090914A	A	E2	hillslope	-1.356	0.1862	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st4	Run20090914A	A	E2	Syx	6.278		4.11267	1.217787		12.36028	
Ceetox	st4	Run20090917A	A	E2	top	99.41	3.053	101.5967	0.923307	89.13837	114.0549	
Ceetox	st4	Run20090917A	A	E2	bottom	2.489	2.257	0.323294	0.213272	-1.36457	2.011154	Above
Ceetox	st4	Run20090917A	A	E2	hillslope	-1.263	0.1773	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st4	Run20090917A	A	E2	Syx	6.748		4.11267	1.217787		12.36028	
Dietrich	st1	Assay03	A	E2	top	92.85	4.6	101.5967	0.923307	89.13837	114.0549	
Dietrich	st1	Assay03	A	E2	bottom	1.471	3.322	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st1	Assay03	A	E2	hillslope	-1.278	0.2831	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st1	Assay03	A	E2	Syx	10.03		4.11267	1.217787		12.36028	
Dietrich	st2	Assay04	A	E2	top	90.39	4.494	101.5967	0.923307	89.13837	114.0549	
Dietrich	st2	Assay04	A	E2	bottom	0.3062	2.669	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st2	Assay04	A	E2	hillslope	-0.9597	0.1629	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st2	Assay04	A	E2	Syx	7.632		4.11267	1.217787		12.36028	
Dietrich	st2	Assay05	A	E2	top	105.4	2.37	101.5967	0.923307	89.13837	114.0549	
Dietrich	st2	Assay05	A	E2	bottom	-0.4723	1.514	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st2	Assay05	A	E2	hillslope	-0.7922	0.06082	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st2	Assay05	A	E2	Syx	3.77		4.11267	1.217787		12.36028	
Dietrich	st2	Assay06	A	E2	top	97.81	2.771	101.5967	0.923307	89.13837	114.0549	
Dietrich	st2	Assay06	A	E2	bottom	0.05799	1.709	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st2	Assay06	A	E2	hillslope	-0.9255	0.0911	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st2	Assay06	A	E2	Syx	4.749		4.11267	1.217787		12.36028	
Dietrich	st2	Assay16	A	E2	top	108.7	2.113	101.5967	0.923307	89.13837	114.0549	
Dietrich	st2	Assay16	A	E2	bottom	0.6574	1.273	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st2	Assay16	A	E2	hillslope	-0.8289	0.0537	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st2	Assay16	A	E2	Syx	3.343		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Dietrich	st3	Assay08	A	E2	top	101	2.205	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay08	A	E2	bottom	0.6161	1.608	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay08	A	E2	hillslope	-1.112	0.1029	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay08	A	E2	Syx	4.62		4.11267	1.217787		12.36028	
Dietrich	st3	Assay09	A	E2	top	83.34	1.575	101.5967	0.923307	89.13837	114.0549	Below
Dietrich	st3	Assay09	A	E2	bottom	0.4314	1.153	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay09	A	E2	hillslope	-1.084	0.08648	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay09	A	E2	Syx	3.277		4.11267	1.217787		12.36028	
Dietrich	st3	Assay10_Part 1	A	E2	top	105.9	2.548	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay10_Part 1	A	E2	bottom	-0.4218	1.543	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay10_Part 1	A	E2	hillslope	-0.8278	0.06595	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay10_Part 1	A	E2	Syx	4.04		4.11267	1.217787		12.36028	
Dietrich	st3	Assay11	A	E2	top	104.7	2.884	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay11	A	E2	bottom	-0.588	1.709	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay11	A	E2	hillslope	-0.7895	0.06981	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay11	A	E2	Syx	4.361		4.11267	1.217787		12.36028	
Dietrich	st3	Assay12_Part 1	A	E2	top	91.98	6.83	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay12_Part 1	A	E2	bottom	-3.215	3.629	0.323294	0.213272	-1.36457	2.011154	Below
Dietrich	st3	Assay12_Part 1	A	E2	hillslope	-0.5951	0.1178	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay12_Part 1	A	E2	Syx	6.683		4.11267	1.217787		12.36028	
Dietrich	st3	Assay13	A	E2	top	93.28	3.23	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay13	A	E2	bottom	-0.3452	1.923	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay13	A	E2	hillslope	-0.8792	0.1056	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay13	A	E2	Syx	5.003		4.11267	1.217787		12.36028	
Dietrich	st3	Assay14_Part 1	A	E2	top	80.31	1.913	101.5967	0.923307	89.13837	114.0549	Below
Dietrich	st3	Assay14_Part 1	A	E2	bottom	0.1353	1.616	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay14_Part 1	A	E2	hillslope	-1.154	0.1337	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay14_Part 1	A	E2	Syx	4.516		4.11267	1.217787		12.36028	
Dietrich	st3	Assay15	A	E2	top	121.2	2.661	101.5967	0.923307	89.13837	114.0549	Above
Dietrich	st3	Assay15	A	E2	bottom	0.003364	1.515	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay15	A	E2	hillslope	-0.7385	0.04991	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay15	A	E2	Syx	3.717		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Dietrich	st3	Assay16	A	E2	top	108.7	2.113	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay16	A	E2	bottom	0.6574	1.273	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st3	Assay16	A	E2	hillslope	-0.8289	0.0537	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay16	A	E2	Syx	3.343		4.11267	1.217787		12.36028	
Freyberger	st2	A	A	E2	top	97.65	1.125	101.5967	0.923307	89.13837	114.0549	
Freyberger	st2	A	A	E2	bottom	0.2966	0.7445	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	A	A	E2	hillslope	-1.135	0.05156	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	A	A	E2	Syx	2.212		4.11267	1.217787		12.36028	
Freyberger	st2	B	A	E2	top	96.22	0.9881	101.5967	0.923307	89.13837	114.0549	
Freyberger	st2	B	A	E2	bottom	0.5558	0.6556	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	B	A	E2	hillslope	-1.129	0.04581	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	B	A	E2	Syx	1.943		4.11267	1.217787		12.36028	
Freyberger	st2	D	A	E2	top	106.4	1.226	101.5967	0.923307	89.13837	114.0549	
Freyberger	st2	D	A	E2	bottom	0.136	0.6625	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	D	A	E2	hillslope	-0.9308	0.03372	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	D	A	E2	Syx	1.917		4.11267	1.217787		12.36028	
Freyberger	st3	CODE A	A	E2	top	105.8	1.161	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE A	A	E2	bottom	0.9044	0.641	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE A	A	E2	hillslope	-0.9552	0.03398	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE A	A	E2	Syx	1.866		4.11267	1.217787		12.36028	
Freyberger	st3	CODE A1	A	E2	top	106.7	1.104	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE A1	A	E2	bottom	0.9471	0.5866	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE A1	A	E2	hillslope	-0.9387	0.03047	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE A1	A	E2	Syx	1.712		4.11267	1.217787		12.36028	
Freyberger	st3	CODE A2	A	E2	top	103.4	4.058	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE A2	A	E2	bottom	0.3281	2.506	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE A2	A	E2	hillslope	-0.9833	0.137	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE A2	A	E2	Syx	7.167		4.11267	1.217787		12.36028	
Freyberger	st3	CODE AB	A	E2	top	100.8	1.239	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE AB	A	E2	bottom	0.3804	0.7198	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE AB	A	E2	hillslope	-1.008	0.04224	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE AB	A	E2	Syx	2.117		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Freyberger	st3	CODE B	A	E2	top	97.8	0.8697	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE B	A	E2	bottom	0.574	0.4627	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE B	A	E2	hillslope	-0.974	0.02742	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE B	A	E2	Syx	1.373		4.11267	1.217787		12.36028	
Freyberger	st3	CODE B1	A	E2	top	107.1	1.608	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE B1	A	E2	bottom	0.145	0.887	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE B1	A	E2	hillslope	-0.9175	0.04379	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE B1	A	E2	Syx	2.534		4.11267	1.217787		12.36028	
Freyberger	st3	CODE B2	A	E2	top	98.52	0.8974	101.5967	0.923307	89.13837	114.0549	
Freyberger	st3	CODE B2	A	E2	bottom	0.3027	0.5192	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st3	CODE B2	A	E2	hillslope	-1.009	0.03122	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st3	CODE B2	A	E2	Syx	1.529		4.11267	1.217787		12.36028	
JapanCERI	st1	20090113_01	A	E2	top	94.01	1.135	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st1	20090113_01	A	E2	bottom	0.7478	0.7967	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st1	20090113_01	A	E2	hillslope	-1.148	0.05775	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st1	20090113_01	A	E2	Syx	2.34		4.11267	1.217787		12.36028	
JapanCERI	st1	20090121_02	A	E2	top	100.8	1.358	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st1	20090121_02	A	E2	bottom	0.008107	0.9541	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st1	20090121_02	A	E2	hillslope	-1.112	0.06126	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st1	20090121_02	A	E2	Syx	2.769		4.11267	1.217787		12.36028	
JapanCERI	st1	20090128_03	A	E2	top	97.34	0.9505	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st1	20090128_03	A	E2	bottom	0.7555	0.6965	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st1	20090128_03	A	E2	hillslope	-1.163	0.04918	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st1	20090128_03	A	E2	Syx	2.032		4.11267	1.217787		12.36028	
JapanCERI	st2	20090422_01	A	E2	top	101.6	1.031	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st2	20090422_01	A	E2	bottom	-0.07589	0.7139	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st2	20090422_01	A	E2	hillslope	-1.002	0.03978	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st2	20090422_01	A	E2	Syx	1.994		4.11267	1.217787		12.36028	
JapanCERI	st2	20090427_02	A	E2	top	106.1	1.022	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st2	20090427_02	A	E2	bottom	0.1016	0.684	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st2	20090427_02	A	E2	hillslope	-1.065	0.03979	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st2	20090427_02	A	E2	Syx	1.979		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
JapanCERI	st2	20090430_03	A	E2	top	100.3	1.595	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st2	20090430_03	A	E2	bottom	-1.151	0.9971	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st2	20090430_03	A	E2	hillslope	-0.881	0.04803	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st2	20090430_03	A	E2	Syx	2.687		4.11267	1.217787		12.36028	
JapanCERI	st3	091021_01	A	E2	top	97.93	1.312	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091021_01	A	E2	bottom	0.3775	0.9158	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091021_01	A	E2	hillslope	-1.256	0.07196	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091021_01	A	E2	Syx	2.773		4.11267	1.217787		12.36028	
JapanCERI	st3	091105_03	A	E2	top	101.1	0.6813	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091105_03	A	E2	bottom	-0.6172	0.4973	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091105_03	A	E2	hillslope	-1.157	0.03309	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091105_03	A	E2	Syx	1.449		4.11267	1.217787		12.36028	
JapanCERI	st3	091109_04	A	E2	top	100.2	1.357	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091109_04	A	E2	bottom	-0.341	0.9256	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091109_04	A	E2	hillslope	-1.077	0.05745	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091109_04	A	E2	Syx	2.676		4.11267	1.217787		12.36028	
JapanCERI	st3	091111_06	A	E2	top	97.87	2.08	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091111_06	A	E2	bottom	-0.2817	1.385	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091111_06	A	E2	hillslope	-1.124	0.09362	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091111_06	A	E2	Syx	4.093		4.11267	1.217787		12.36028	
JapanCERI	st3	091116_08	A	E2	top	98.81	1.913	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091116_08	A	E2	bottom	1.528	1.427	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091116_08	A	E2	hillslope	-1.251	0.1099	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091116_08	A	E2	Syx	4.243		4.11267	1.217787		12.36028	
JapanCERI	st3	091119_11	A	E2	top	105.5	2.573	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091119_11	A	E2	bottom	-0.9325	1.578	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091119_11	A	E2	hillslope	-0.8745	0.07197	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091119_11	A	E2	Syx	4.258		4.11267	1.217787		12.36028	
Lovelace	st1	Run13Dec08	A	E2	top	111.6	5.413	101.5967	0.923307	89.13837	114.0549	
Lovelace	st1	Run13Dec08	A	E2	bottom	5.684	3.198	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st1	Run13Dec08	A	E2	hillslope	-1.042	0.1853	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st1	Run13Dec08	A	E2	Syx	9.489		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st1	Run19Dec08	A	E2	top	103.2	9.396	101.5967	0.923307	89.13837	114.0549	
Lovelace	st1	Run19Dec08	A	E2	bottom	-2.121	6.917	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st1	Run19Dec08	A	E2	hillslope	-0.7235	0.2376	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st1	Run19Dec08	A	E2	Syx	14.93		4.11267	1.217787		12.36028	Above
Lovelace	st12	Run06Oct09	A	E2	top	127.7	3.688	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st12	Run06Oct09	A	E2	bottom	2.124	2.529	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st12	Run06Oct09	A	E2	hillslope	-0.9847	0.1117	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run06Oct09	A	E2	Syx	7.024		4.11267	1.217787		12.36028	
Lovelace	st12	Run09July10 EtOH_Buffer	A	E2	top	95.54	5.819	101.5967	0.923307	89.13837	114.0549	
Lovelace	st12	Run09July10 EtOH_Buffer	A	E2	bottom	-1.635	2.798	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st12	Run09July10 EtOH_Buffer	A	E2	hillslope	-0.6408	0.1016	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run09July10 EtOH_Buffer	A	E2	Syx	6.341		4.11267	1.217787		12.36028	
Lovelace	st12	Run19Aug10EtOH_Buffer	A	E2	top	92.31	2.134	101.5967	0.923307	89.13837	114.0549	
Lovelace	st12	Run19Aug10EtOH_Buffer	A	E2	bottom	-0.4664	1.299	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st12	Run19Aug10EtOH_Buffer	A	E2	hillslope	-0.9562	0.07629	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run19Aug10EtOH_Buffer	A	E2	Syx	3.683		4.11267	1.217787		12.36028	
Lovelace	st2	Run01May09EtOH	A	E2	top	102.8	4.951	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run01May09EtOH	A	E2	bottom	2.005	1.908	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run01May09EtOH	A	E2	hillslope	-0.8531	0.1078	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run01May09EtOH	A	E2	Syx	5.693		4.11267	1.217787		12.36028	
Lovelace	st2	Run16April09EtOH	A	E2	top	99	7.043	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run16April09EtOH	A	E2	bottom	1.157	5.648	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run16April09EtOH	A	E2	hillslope	-0.9501	0.3012	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run16April09EtOH	A	E2	Syx	14.6		4.11267	1.217787		12.36028	Above
Lovelace	st2	Run24Feb09EtOH	A	E2	top	101.5	1.763	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run24Feb09EtOH	A	E2	bottom	-0.4577	1.182	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run24Feb09EtOH	A	E2	hillslope	-1.052	0.07027	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run24Feb09EtOH	A	E2	Syx	3.401		4.11267	1.217787		12.36028	
Lovelace	st3	Run13Mar09EtOH	A	E2	top	106.3	8.05	101.5967	0.923307	89.13837	114.0549	
Lovelace	st3	Run13Mar09EtOH	A	E2	bottom	1.203	6.463	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run13Mar09EtOH	A	E2	hillslope	-1.075	0.375	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run13Mar09EtOH	A	E2	Syx	17.82		4.11267	1.217787		12.36028	Above

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st3	Run19Jun09EtOH	A	E2	top	102.6	4.266	101.5967	0.923307	89.13837	114.0549	
Lovelace	st3	Run19Jun09EtOH	A	E2	bottom	-0.3474	3.443	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run19Jun09EtOH	A	E2	hillslope	-0.9509	0.1746	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run19Jun09EtOH	A	E2	Syx	8.881		4.11267	1.217787		12.36028	
Lovelace	st3	Run30Jun09EtOH	A	E2	top	104	2.62	101.5967	0.923307	89.13837	114.0549	
Lovelace	st3	Run30Jun09EtOH	A	E2	bottom	0.3315	1.736	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run30Jun09EtOH	A	E2	hillslope	-0.8775	0.08063	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run30Jun09EtOH	A	E2	Syx	4.579		4.11267	1.217787		12.36028	
Missouri	st1	Run7003	A	E2	top	111.3	1.031	101.5967	0.923307	89.13837	114.0549	
Missouri	st1	Run7003	A	E2	bottom	0.5582	1.031	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run7003	A	E2	hillslope	-1.087	0.08203	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run7003	A	E2	Syx	3.053		4.11267	1.217787		12.36028	
Missouri	st1	Run7004	A	E2	top	112.9	1.801	101.5967	0.923307	89.13837	114.0549	
Missouri	st1	Run7004	A	E2	bottom	-0.09245	1.843	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run7004	A	E2	hillslope	-0.919	0.09948	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run7004	A	E2	Syx	5.144		4.11267	1.217787		12.36028	
Missouri	st1	Run7005	A	E2	top	105.7	2.232	101.5967	0.923307	89.13837	114.0549	
Missouri	st1	Run7005	A	E2	bottom	-0.3871	2.299	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run7005	A	E2	hillslope	-0.8772	0.1205	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run7005	A	E2	Syx	6.29		4.11267	1.217787		12.36028	
Missouri	st1	Run7006	A	E2	top	107.4	2.983	101.5967	0.923307	89.13837	114.0549	
Missouri	st1	Run7006	A	E2	bottom	-0.5713	1.834	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run7006	A	E2	hillslope	-0.9939	0.09709	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run7006	A	E2	Syx	5.277		4.11267	1.217787		12.36028	
Missouri	st1	Run7007	A	E2	top	109.2	2.03	101.5967	0.923307	89.13837	114.0549	
Missouri	st1	Run7007	A	E2	bottom	0.1206	1.163	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run7007	A	E2	hillslope	-0.9645	0.0595	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run7007	A	E2	Syx	3.368		4.11267	1.217787		12.36028	
Missouri	st2	Run9003	A	E2	top	106.3	3.727	101.5967	0.923307	89.13837	114.0549	
Missouri	st2	Run9003	A	E2	bottom	-1.342	1.877	0.323294	0.213272	-1.36457	2.011154	
Missouri	st2	Run9003	A	E2	hillslope	-0.891	0.09124	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st2	Run9003	A	E2	Syx	5.412		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st2	Run9004	A	E2	top	107.5	3.059	101.5967	0.923307	89.13837	114.0549	
Missouri	st2	Run9004	A	E2	bottom	-0.8108	1.482	0.323294	0.213272	-1.36457	2.011154	
Missouri	st2	Run9004	A	E2	hillslope	-0.8654	0.07	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st2	Run9004	A	E2	Syx	4.249		4.11267	1.217787		12.36028	
Missouri	st2	Run9005	A	E2	top	105.6	4.1	101.5967	0.923307	89.13837	114.0549	
Missouri	st2	Run9005	A	E2	bottom	-2.119	2.058	0.323294	0.213272	-1.36457	2.011154	Below
Missouri	st2	Run9005	A	E2	hillslope	-0.9062	0.1023	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st2	Run9005	A	E2	Syx	5.993		4.11267	1.217787		12.36028	
Missouri	st2	Run9007	A	E2	top	102.9	3.221	101.5967	0.923307	89.13837	114.0549	
Missouri	st2	Run9007	A	E2	bottom	-0.6171	1.607	0.323294	0.213272	-1.36457	2.011154	
Missouri	st2	Run9007	A	E2	hillslope	-0.9845	0.09285	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st2	Run9007	A	E2	Syx	4.874		4.11267	1.217787		12.36028	
Missouri	st3	Run8003	A	E2	top	103.2	1.628	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8003	A	E2	bottom	0.334	0.9027	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8003	A	E2	hillslope	-0.9806	0.05041	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8003	A	E2	Syx	2.656		4.11267	1.217787		12.36028	
Missouri	st3	Run8004	A	E2	top	114.5	3.418	101.5967	0.923307	89.13837	114.0549	Above
Missouri	st3	Run8004	A	E2	bottom	1.232	1.875	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8004	A	E2	hillslope	-0.9346	0.08962	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8004	A	E2	Syx	5.414		4.11267	1.217787		12.36028	
Missouri	st3	Run8005	A	E2	top	96.83	1.166	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8005	A	E2	bottom	-0.449	0.5959	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8005	A	E2	hillslope	-0.8539	0.03022	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8005	A	E2	Syx	1.673		4.11267	1.217787		12.36028	
Missouri	st3	Run8101	A	E2	top	96.73	1.001	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8101	A	E2	bottom	0.29	0.3484	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8101	A	E2	hillslope	-1.495	0.06063	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8101	A	E2	Syx	1.344		4.11267	1.217787		12.36028	
Missouri	st3	Run8102	A	E2	top	91.49	0.7296	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8102	A	E2	bottom	0.7358	0.2371	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8102	A	E2	hillslope	-1.351	0.03852	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8102	A	E2	Syx	0.8891		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st3	Run8107	A	E2	top	96.77	1.8	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8107	A	E2	bottom	0.5864	1.088	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8107	A	E2	hillslope	-1.074	0.07202	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8107	A	E2	Syx	3.246		4.11267	1.217787		12.36028	
Missouri	st3	Run8108	A	E2	top	109.9	2.62	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8108	A	E2	bottom	-1.148	1.652	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8108	A	E2	hillslope	-1.002	0.08226	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8108	A	E2	Syx	4.534		4.11267	1.217787		12.36028	
Missouri	st4	Run1101	A	E2	top	94.15	2.667	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1101	A	E2	bottom	2.138	1.719	0.323294	0.213272	-1.36457	2.011154	Above
Missouri	st4	Run1101	A	E2	hillslope	-1.014	0.1087	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1101	A	E2	Syx	4.925		4.11267	1.217787		12.36028	
Missouri	st4	Run1102	A	E2	top	86.2	2.708	101.5967	0.923307	89.13837	114.0549	Below
Missouri	st4	Run1102	A	E2	bottom	-0.3514	1.743	0.323294	0.213272	-1.36457	2.011154	
Missouri	st4	Run1102	A	E2	hillslope	-1.031	0.1197	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1102	A	E2	Syx	5.028		4.11267	1.217787		12.36028	
Missouri	st4	Run1103	A	E2	top	90.45	2.338	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1103	A	E2	bottom	-0.4776	1.529	0.323294	0.213272	-1.36457	2.011154	
Missouri	st4	Run1103	A	E2	hillslope	-0.9386	0.08835	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1103	A	E2	Syx	4.206		4.11267	1.217787		12.36028	
Missouri	st4	Run1104	A	E2	top	110.4	2.874	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1104	A	E2	bottom	-1.05	1.68	0.323294	0.213272	-1.36457	2.011154	
Missouri	st4	Run1104	A	E2	hillslope	-0.8881	0.07533	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1104	A	E2	Syx	4.641		4.11267	1.217787		12.36028	
Missouri	st4	Run1106	A	E2	top	106.8	2.17	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1106	A	E2	bottom	0.7801	1.357	0.323294	0.213272	-1.36457	2.011154	
Missouri	st4	Run1106	A	E2	hillslope	-1.18	0.0923	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1106	A	E2	Syx	4.149		4.11267	1.217787		12.36028	
Missouri	st4	Run1107	A	E2	top	104.9	2.419	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1107	A	E2	bottom	-1.411	1.373	0.323294	0.213272	-1.36457	2.011154	Below
Missouri	st4	Run1107	A	E2	hillslope	-1.037	0.07951	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1107	A	E2	Syx	4.112		4.11267	1.217787		12.36028	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st4	Run1108	A	E2	top	108.9	1.713	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1108	A	E2	bottom	-0.5873	1.06	0.323294	0.213272	-1.36457	2.011154	
Missouri	st4	Run1108	A	E2	hillslope	-1.086	0.06223	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1108	A	E2	Syx	3.155		4.11267	1.217787		12.36028	
Missouri	st4	Run1109	A	E2	top	106.4	2.261	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1109	A	E2	bottom	-2.22	1.335	0.323294	0.213272	-1.36457	2.011154	Below
Missouri	st4	Run1109	A	E2	hillslope	-1.041	0.07532	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1109	A	E2	Syx	3.959		4.11267	1.217787		12.36028	
Missouri	st4	Run1111	A	E2	top	107.4	4.256	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1111	A	E2	bottom	2.339	2.494	0.323294	0.213272	-1.36457	2.011154	Above
Missouri	st4	Run1111	A	E2	hillslope	-1.079	0.153	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1111	A	E2	Syx	7.516		4.11267	1.217787		12.36028	
Missouri	st4	Run1103	A	E2	top	90.45	2.338	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1103	A	E2	bottom	-0.4776	1.529	0.294546	0.203601	-1.315989	1.905081	
Missouri	st4	Run1103	A	E2	hillslope	-0.9386	0.08835	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1103	A	E2	Syx	4.206		4.132221	1.213675		12.09318	
Missouri	st4	Run1104	A	E2	top	110.4	2.874	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1104	A	E2	bottom	-1.05	1.68	0.294546	0.203601	-1.315989	1.905081	
Missouri	st4	Run1104	A	E2	hillslope	-0.8881	0.07533	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1104	A	E2	Syx	4.641		4.132221	1.213675		12.09318	
Missouri	st4	Run1106	A	E2	top	106.8	2.17	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1106	A	E2	bottom	0.7801	1.357	0.294546	0.203601	-1.315989	1.905081	
Missouri	st4	Run1106	A	E2	hillslope	-1.18	0.0923	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1106	A	E2	Syx	4.149		4.132221	1.213675		12.09318	
Missouri	st4	Run1107	A	E2	top	104.9	2.419	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1107	A	E2	bottom	-1.411	1.373	0.294546	0.203601	-1.315989	1.905081	Below
Missouri	st4	Run1107	A	E2	hillslope	-1.037	0.07951	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1107	A	E2	Syx	4.112		4.132221	1.213675		12.09318	
Missouri	st4	Run1108	A	E2	top	108.9	1.713	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1108	A	E2	bottom	-0.5873	1.06	0.294546	0.203601	-1.315989	1.905081	
Missouri	st4	Run1108	A	E2	hillslope	-1.086	0.06223	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1108	A	E2	Syx	3.155		4.132221	1.213675		12.09318	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st4	Run1109	A	E2	top	106.4	2.261	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1109	A	E2	bottom	-2.22	1.335	0.294546	0.203601	-1.315989	1.905081	Below
Missouri	st4	Run1109	A	E2	hillslope	-1.041	0.07532	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1109	A	E2	Syx	3.959		4.132221	1.213675		12.09318	
Missouri	st4	Run1111	A	E2	top	107.4	4.256	101.7788	0.849719	90.05695	113.5007	
Missouri	st4	Run1111	A	E2	bottom	2.339	2.494	0.294546	0.203601	-1.315989	1.905081	Above
Missouri	st4	Run1111	A	E2	hillslope	-1.079	0.153	-1.015116	0.035494	-1.87611	-0.1541222	
Missouri	st4	Run1111	A	E2	Syx	7.516		4.132221	1.213675		12.09318	

Table E-8. FWA Assay, Parameter Estimates for the Unacceptable E2 Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st3	Run20090418 DMS	DMSO(A)	E2	top	108.3	4.023	101.5967	0.923307	89.13837	114.0549	
Ceetox	st3	Run20090418 DMS	DMSO(A)	E2	bottom	-0.7077	2.365	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st3	Run20090418 DMS	DMSO(A)	E2	hillslope	-0.836	0.1004	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st3	Run20090418 DMS	DMSO(A)	E2	Syx	6.293		4.11267	1.217787		12.36028	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	E2	top	91.64	3.556	101.5967	0.923307	89.13837	114.0549	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	E2	bottom	1.749	2.507	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	E2	hillslope	-1.063	0.1699	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	E2	Syx	7.142		4.11267	1.217787		12.36028	
Ceetox	st3	Run20090514 DMSO	DMSO(A)	E2	top	86.7	2.75	101.5967	0.923307	89.13837	114.0549	Below
Ceetox	st3	Run20090514 DMSO	DMSO(A)	E2	bottom	2.71	1.936	0.323294	0.213272	-1.36457	2.011154	Above
Ceetox	st3	Run20090514 DMSO	DMSO(A)	E2	hillslope	-1.352	0.1964	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st3	Run20090514 DMSO	DMSO(A)	E2	Syx	5.982		4.11267	1.217787		12.36028	
Freyberger	st2	E	DMSO(A)	E2	top	114.4	1.415	101.5967	0.923307	89.13837	114.0549	Above
Freyberger	st2	E	DMSO(A)	E2	bottom	-0.5082	0.7205	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	E	DMSO(A)	E2	hillslope	-0.8638	0.03143	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	E	DMSO(A)	E2	Syx	2.038		4.11267	1.217787		12.36028	
Freyberger	st2	F	DMSO(A)	E2	top	106.5	1.431	101.5967	0.923307	89.13837	114.0549	
Freyberger	st2	F	DMSO(A)	E2	bottom	0.1982	0.7319	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	F	DMSO(A)	E2	hillslope	-0.9095	0.03678	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	F	DMSO(A)	E2	Syx	2.125		4.11267	1.217787		12.36028	
Freyberger	st2	G	DMSO(A)	E2	top	93.13	1.801	101.5967	0.923307	89.13837	114.0549	
Freyberger	st2	G	DMSO(A)	E2	bottom	-0.2039	1.001	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	G	DMSO(A)	E2	hillslope	-0.9475	0.05889	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	G	DMSO(A)	E2	Syx	2.898		4.11267	1.217787		12.36028	
JapanCERI	st3	091110_05	DMSO(A)	E2	top	103.9	2.664	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091110_05	DMSO(A)	E2	bottom	-0.113	1.733	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091110_05	DMSO(A)	E2	hillslope	-1.077	0.1048	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091110_05	DMSO(A)	E2	Syx	5.074		4.11267	1.217787		12.36028	
JapanCERI	st3	091112_07	DMSO(A)	E2	top	103.1	1.315	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091112_07	DMSO(A)	E2	bottom	-1.332	0.8658	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091112_07	DMSO(A)	E2	hillslope	-0.9622	0.04493	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091112_07	DMSO(A)	E2	Syx	2.407		4.11267	1.217787		12.36028	
JapanCERI	st3	091117_09	DMSO(A)	E2	top	102.5	1.012	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091117_09	DMSO(A)	E2	bottom	0.7646	0.6773	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091117_09	DMSO(A)	E2	hillslope	-1.142	0.04509	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091117_09	DMSO(A)	E2	Syx	2.01		4.11267	1.217787		12.36028	
JapanCERI	st3	091118_10	DMSO(A)	E2	top	102.2	1.619	101.5967	0.923307	89.13837	114.0549	
JapanCERI	st3	091118_10	DMSO(A)	E2	bottom	0.7677	1.086	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091118_10	DMSO(A)	E2	hillslope	-1.034	0.06343	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091118_10	DMSO(A)	E2	Syx	3.102		4.11267	1.217787		12.36028	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	E2	top	103.9	1.295	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	E2	bottom	0.7821	0.7678	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	E2	hillslope	-1.005	0.0435	-1.01977	0.035952	-1.91309	-0.12645	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	E2	Syx	2.242		4.11267	1.217787		12.36028	
Missouri	st3	Run8201 DMSO	DMSO(A)	E2	top	86.65	1.099	101.5967	0.923307	89.13837	114.0549	Below
Missouri	st3	Run8201 DMSO	DMSO(A)	E2	bottom	0.131	0.6721	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8201 DMSO	DMSO(A)	E2	hillslope	-1.02	0.04601	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8201 DMSO	DMSO(A)	E2	Syx	1.958		4.11267	1.217787		12.36028	
Missouri	st3	Run8203 DMSO	DMSO(A)	E2	top	94.21	3.361	101.5967	0.923307	89.13837	114.0549	
Missouri	st3	Run8203 DMSO	DMSO(A)	E2	bottom	0.173	1.853	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8203 DMSO	DMSO(A)	E2	hillslope	-1.031	0.1211	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8203 DMSO	DMSO(A)	E2	Syx	5.579		4.11267	1.217787		12.36028	
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	E2	top	131.3	5.861	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	E2	bottom	2.512	3.949	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	E2	hillslope	-1.321	0.2563	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	E2	Syx	12.26		4.11267	1.217787		12.36028	
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	E2	top	131.2	3.747	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	E2	bottom	1.195	2.311	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	E2	hillslope	-1.162	0.1258	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	E2	Syx	7.054		4.11267	1.217787		12.36028	
Lovelace	st2	Run30Jan09DMSO	DMSO(U)	E2	top			101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run30Jan09DMSO	DMSO(U)	E2	bottom	4.14E-15	71.43	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run30Jan09DMSO	DMSO(U)	E2	hillslope	-50.87	1.18E+28	-1.01977	0.035952	-1.91309	-0.12645	Below
Lovelace	st2	Run30Jan09DMSO	DMSO(U)	E2	Syx	175		4.11267	1.217787		12.36028	Above
Lovelace	st3	Run03May09DMSO	DMSO(U)	E2	top	169.7	5.572	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run03May09DMSO	DMSO(U)	E2	bottom	-0.6274	2.993	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run03May09DMSO	DMSO(U)	E2	hillslope	-0.6822	0.06453	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run03May09DMSO	DMSO(U)	E2	Syx	6.968		4.11267	1.217787		12.36028	
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	E2	top	144.4	8.991	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	E2	bottom	1.439	5.291	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	E2	hillslope	-0.7424	0.1474	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	E2	Syx	12.88		4.11267	1.217787		12.36028	Above
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	E2	top	118	11.44	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	E2	bottom	-5.4	6.483	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	E2	hillslope	-0.7491	0.2139	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	E2	Syx	16.13		4.11267	1.217787		12.36028	Above
Missouri	st3	Run8202 DMSO	DMSO(U)	E2	top	83.25	0.8545	101.5967	0.923307	89.13837	114.0549	Below
Missouri	st3	Run8202 DMSO	DMSO(U)	E2	bottom	0.3768	0.523	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8202 DMSO	DMSO(U)	E2	hillslope	-1.135	0.04325	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8202 DMSO	DMSO(U)	E2	Syx	1.587		4.11267	1.217787		12.36028	
Ceetox	st1	Run20081124	U	E2	top	81.73	3.724	101.5967	0.923307	89.13837	114.0549	Below
Ceetox	st1	Run20081124	U	E2	bottom	-0.0878	2.618	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st1	Run20081124	U	E2	hillslope	-1.064	0.1954	-1.01977	0.035952	-1.91309	-0.12645	
Ceetox	st1	Run20081124	U	E2	Syx	7.469		4.11267	1.217787		12.36028	
Ceetox	st2	Run20090128 BAD	U	E2	top	79.71	1.82	101.5967	0.923307	89.13837	114.0549	Below
Ceetox	st2	Run20090128 BAD	U	E2	bottom	0.8702	1.251	0.323294	0.213272	-1.36457	2.011154	
Ceetox	st2	Run20090128 BAD	U	E2	hillslope	-1.167	0.1101	-1.01977	0.035952	-1.91309	-0.12645	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st2	Run20090128 BAD	U	E2	Syx	3.715		4.11267	1.217787		12.36028	
Dietrich	st1	Assay01	U	E2	top			101.5967	0.923307	89.13837	114.0549	
Dietrich	st1	Assay01	U	E2	bottom	0.1828	2.547	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st1	Assay01	U	E2	hillslope	-0.652	0.0949	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st1	Assay01	U	E2	Syx	9.093		4.11267	1.217787		12.36028	
Dietrich	st1	Assay02	U	E2	top	130.5	4.936	101.5967	0.923307	89.13837	114.0549	Above
Dietrich	st1	Assay02	U	E2	bottom	-0.1917	2.483	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st1	Assay02	U	E2	hillslope	-0.7012	0.07388	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st1	Assay02	U	E2	Syx	6.07		4.11267	1.217787		12.36028	
Dietrich	st2	Assay15	U	E2	top	121.2	2.661	101.5967	0.923307	89.13837	114.0549	Above
Dietrich	st2	Assay15	U	E2	bottom	0.003364	1.515	0.323294	0.213272	-1.36457	2.011154	
Dietrich	st2	Assay15	U	E2	hillslope	-0.7385	0.04991	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st2	Assay15	U	E2	Syx	3.717		4.11267	1.217787		12.36028	
Dietrich	st3	Assay07	U	E2	top	101.8	8.856	101.5967	0.923307	89.13837	114.0549	
Dietrich	st3	Assay07	U	E2	bottom	-4.885	5.046	0.323294	0.213272	-1.36457	2.011154	Below
Dietrich	st3	Assay07	U	E2	hillslope	-0.5597	0.1294	-1.01977	0.035952	-1.91309	-0.12645	
Dietrich	st3	Assay07	U	E2	Syx	8.958		4.11267	1.217787		12.36028	
Freyberger	st2	C	U	E2	top	92.12	2.428	101.5967	0.923307	89.13837	114.0549	
Freyberger	st2	C	U	E2	bottom	1.061	0.4877	0.323294	0.213272	-1.36457	2.011154	
Freyberger	st2	C	U	E2	hillslope	-0.9903	0.0611	-1.01977	0.035952	-1.91309	-0.12645	
Freyberger	st2	C	U	E2	Syx	1.657		4.11267	1.217787		12.36028	
JapanCERI	st3	091026_02	U	E2	top	84.29	2.731	101.5967	0.923307	89.13837	114.0549	Below
JapanCERI	st3	091026_02	U	E2	bottom	0.6386	2.313	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091026_02	U	E2	hillslope	-1.51	0.2621	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091026_02	U	E2	Syx	6.992		4.11267	1.217787		12.36028	
JapanCERI	st3	091104_00	U	E2	top	82.02	7.446	101.5967	0.923307	89.13837	114.0549	Below
JapanCERI	st3	091104_00	U	E2	bottom	1.031	6.869	0.323294	0.213272	-1.36457	2.011154	
JapanCERI	st3	091104_00	U	E2	hillslope	-1.629	0.8875	-1.01977	0.035952	-1.91309	-0.12645	
JapanCERI	st3	091104_00	U	E2	Syx	20.56		4.11267	1.217787		12.36028	Above
Lovelace	st1	Run03Dec08	U	E2	top	169.6	11.55	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st1	Run03Dec08	U	E2	bottom	4.669	5.967	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st1	Run03Dec08	U	E2	hillslope	-0.7843	0.1552	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st1	Run03Dec08	U	E2	Syx	15.11		4.11267	1.217787		12.36028	Above
Lovelace	st1	Run09Dec08	U	E2	top	178.3	17.37	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st1	Run09Dec08	U	E2	bottom	0.7443	8.675	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st1	Run09Dec08	U	E2	hillslope	-0.935	0.2729	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st1	Run09Dec08	U	E2	Syx	25.69		4.11267	1.217787		12.36028	Above
Lovelace	st1	Run16Dec08	U	E2	top	106.1	4.868	101.5967	0.923307	89.13837	114.0549	
Lovelace	st1	Run16Dec08	U	E2	bottom	14.21	3.067	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st1	Run16Dec08	U	E2	hillslope	-4.507	2.46	-1.01977	0.035952	-1.91309	-0.12645	Below
Lovelace	st1	Run16Dec08	U	E2	Syx	11.84		4.11267	1.217787		12.36028	
Lovelace	st1	Run27Jan09	U	E2	top	132.6	11.59	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st1	Run27Jan09	U	E2	bottom	2.33	5.713	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st1	Run27Jan09	U	E2	hillslope	-0.8257	0.2101	-1.01977	0.035952	-1.91309	-0.12645	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st1	Run27Jan09	U	E2	Syx	15.87		4.11267	1.217787		12.36028	Above
Lovelace	st12	Run09July10	U	E2	top	175.9	10.85	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st12	Run09July10	U	E2	bottom	-2.924	5.125	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st12	Run09July10	U	E2	hillslope	-0.6323	0.1001	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run09July10	U	E2	Syx	11.51		4.11267	1.217787		12.36028	
Lovelace	st12	Run09Oct09 EtOH	U	E2	top	72.75	7.216	101.5967	0.923307	89.13837	114.0549	Below
Lovelace	st12	Run09Oct09 EtOH	U	E2	bottom	-2.03	5	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st12	Run09Oct09 EtOH	U	E2	hillslope	-0.6768	0.2237	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run09Oct09 EtOH	U	E2	Syx	10.35		4.11267	1.217787		12.36028	
Lovelace	st12	Run14Oct09 EtOH	U	E2	top	119.4	5.277	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st12	Run14Oct09 EtOH	U	E2	bottom	-2.75	2.82	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st12	Run14Oct09 EtOH	U	E2	hillslope	-0.5851	0.06915	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run14Oct09 EtOH	U	E2	Syx	5.486		4.11267	1.217787		12.36028	
Lovelace	st12	Run19Aug10EtOH	U	E2	top	746.9	16.82	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st12	Run19Aug10EtOH	U	E2	bottom	-4.961	10.19	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st12	Run19Aug10EtOH	U	E2	hillslope	-0.9486	0.07313	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run19Aug10EtOH	U	E2	Syx	28.81		4.11267	1.217787		12.36028	Above
Lovelace	st12	Run25Sep09 EtOH	U	E2	top	106.6	6.383	101.5967	0.923307	89.13837	114.0549	
Lovelace	st12	Run25Sep09 EtOH	U	E2	bottom	-3.189	3.754	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st12	Run25Sep09 EtOH	U	E2	hillslope	-0.5516	0.09041	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st12	Run25Sep09 EtOH	U	E2	Syx	6.424		4.11267	1.217787		12.36028	
Lovelace	st2	Run06Feb09EtOH	U	E2	top	114.2	12.21	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run06Feb09EtOH	U	E2	bottom	-0.5208	11.24	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run06Feb09EtOH	U	E2	hillslope	-0.6448	0.2516	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run06Feb09EtOH	U	E2	Syx	16.23		4.11267	1.217787		12.36028	Above
Lovelace	st2	Run09Feb09EtOH	U	E2	top	92.62	4.452	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run09Feb09EtOH	U	E2	bottom	-3.833	4.379	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st2	Run09Feb09EtOH	U	E2	hillslope	-0.725	0.1484	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run09Feb09EtOH	U	E2	Syx	8.095		4.11267	1.217787		12.36028	
Lovelace	st2	Run10April09EtOH	U	E2	top	1105	32.18	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run10April09EtOH	U	E2	bottom	12.44	33.51	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st2	Run10April09EtOH	U	E2	hillslope	-1.564	0.3059	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run10April09EtOH	U	E2	Syx	96.35		4.11267	1.217787		12.36028	Above
Lovelace	st2	Run12Feb09EtOH	U	E2	top			101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run12Feb09EtOH	U	E2	bottom	-1.248	5.187	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run12Feb09EtOH	U	E2	hillslope	-0.7467	0.4201	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run12Feb09EtOH	U	E2	Syx	10.33		4.11267	1.217787		12.36028	
Lovelace	st2	Run13May09EtOH	U	E2	top	128.4	3.244	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run13May09EtOH	U	E2	bottom	-0.7256	2.75	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run13May09EtOH	U	E2	hillslope	-0.7585	0.07929	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run13May09EtOH	U	E2	Syx	5.788		4.11267	1.217787		12.36028	
Lovelace	st2	Run21April09EtOH	U	E2	top	121.7	3.268	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run21April09EtOH	U	E2	bottom			0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run21April09EtOH	U	E2	hillslope			-1.01977	0.035952	-1.91309	-0.12645	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st2	Run21April09EtOH	U	E2	Syx	12.65		4.11267	1.217787		12.36028	Above
Lovelace	st2	Run24April09EtOH	U	E2	top	133	5.726	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st2	Run24April09EtOH	U	E2	bottom	-0.1557	4.625	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run24April09EtOH	U	E2	hillslope	-0.8059	0.1438	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run24April09EtOH	U	E2	Syx	10.55		4.11267	1.217787		12.36028	
Lovelace	st2	Run28April09EtOH	U	E2	top	90.47	5.957	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run28April09EtOH	U	E2	bottom	1.023	6.232	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st2	Run28April09EtOH	U	E2	hillslope	-1.063	0.4227	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run28April09EtOH	U	E2	Syx	15.21		4.11267	1.217787		12.36028	Above
Lovelace	st2	Run28May09EtOH	U	E2	top	105.4	5.258	101.5967	0.923307	89.13837	114.0549	
Lovelace	st2	Run28May09EtOH	U	E2	bottom	-2.838	3.655	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st2	Run28May09EtOH	U	E2	hillslope	-0.625	0.1002	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st2	Run28May09EtOH	U	E2	Syx	6.869		4.11267	1.217787		12.36028	
Lovelace	st3	Run10Mar09EtOH	U	E2	top	143.7	62.64	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run10Mar09EtOH	U	E2	bottom	-24.32	44.47	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st3	Run10Mar09EtOH	U	E2	hillslope	-0.3026	0.256	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run10Mar09EtOH	U	E2	Syx	19.34		4.11267	1.217787		12.36028	Above
Lovelace	st3	Run17Jun09EtOH	U	E2	top	152.8	3.157	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run17Jun09EtOH	U	E2	bottom	-2.862	2.287	0.323294	0.213272	-1.36457	2.011154	Below
Lovelace	st3	Run17Jun09EtOH	U	E2	hillslope	-0.8407	0.06598	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run17Jun09EtOH	U	E2	Syx	5.668		4.11267	1.217787		12.36028	
Lovelace	st3	Run20Mar09EtOH	U	E2	top	122	41.9	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run20Mar09EtOH	U	E2	bottom	10.87	32.46	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st3	Run20Mar09EtOH	U	E2	hillslope			-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run20Mar09EtOH	U	E2	Syx	125.7		4.11267	1.217787		12.36028	Above
Lovelace	st3	Run23Jun09EtOH	U	E2	top	129.6	6.064	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run23Jun09EtOH	U	E2	bottom	0.03984	4.387	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run23Jun09EtOH	U	E2	hillslope	-0.8993	0.1663	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run23Jun09EtOH	U	E2	Syx	11.39		4.11267	1.217787		12.36028	
Lovelace	st3	Run24Mar09EtOH	U	E2	top	71.12	7.391	101.5967	0.923307	89.13837	114.0549	Below
Lovelace	st3	Run24Mar09EtOH	U	E2	bottom	2.952	6.472	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st3	Run24Mar09EtOH	U	E2	hillslope	-2.158	1.523	-1.01977	0.035952	-1.91309	-0.12645	Below
Lovelace	st3	Run24Mar09EtOH	U	E2	Syx	20.89		4.11267	1.217787		12.36028	Above
Lovelace	st3	Run25Jun09EtOH	U	E2	top	142.5	2.415	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run25Jun09EtOH	U	E2	bottom	-0.995	1.659	0.323294	0.213272	-1.36457	2.011154	
Lovelace	st3	Run25Jun09EtOH	U	E2	hillslope	-0.8262	0.05119	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run25Jun09EtOH	U	E2	Syx	4.146		4.11267	1.217787		12.36028	
Lovelace	st3	Run31Mar09EtOH	U	E2	top	300.6	21.26	101.5967	0.923307	89.13837	114.0549	Above
Lovelace	st3	Run31Mar09EtOH	U	E2	bottom	2.723	12.49	0.323294	0.213272	-1.36457	2.011154	Above
Lovelace	st3	Run31Mar09EtOH	U	E2	hillslope	-1.337	0.3668	-1.01977	0.035952	-1.91309	-0.12645	
Lovelace	st3	Run31Mar09EtOH	U	E2	Syx	40.46		4.11267	1.217787		12.36028	Above
Missouri	st1	Run3005	U	E2	top	137.4	12.61	101.5967	0.923307	89.13837	114.0549	Above
Missouri	st1	Run3005	U	E2	bottom	1.004	2.589	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run3005	U	E2	hillslope	-0.624	0.09777	-1.01977	0.035952	-1.91309	-0.12645	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st1	Run3005	U	E2	Syx	6.671		4.11267	1.217787		12.36028	
Missouri	st1	Run3006	U	E2	top	155.3	47.38	101.5967	0.923307	89.13837	114.0549	Above
Missouri	st1	Run3006	U	E2	bottom	-5.691	5.09	0.323294	0.213272	-1.36457	2.011154	Below
Missouri	st1	Run3006	U	E2	hillslope	-0.3619	0.1019	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run3006	U	E2	Syx	6.312		4.11267	1.217787		12.36028	
Missouri	st1	Run3008	U	E2	top	123.8	8.996	101.5967	0.923307	89.13837	114.0549	Above
Missouri	st1	Run3008	U	E2	bottom	-1.216	1.929	0.323294	0.213272	-1.36457	2.011154	
Missouri	st1	Run3008	U	E2	hillslope	-0.5722	0.06857	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st1	Run3008	U	E2	Syx	4.548		4.11267	1.217787		12.36028	
Missouri	st3	Run8001	U	E2	top	88.12	2.247	101.5967	0.923307	89.13837	114.0549	Below
Missouri	st3	Run8001	U	E2	bottom	0.1329	1.289	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8001	U	E2	hillslope	-0.9064	0.07545	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8001	U	E2	Syx	3.619		4.11267	1.217787		12.36028	
Missouri	st3	Run8002	U	E2	top	81.14	1.126	101.5967	0.923307	89.13837	114.0549	Below
Missouri	st3	Run8002	U	E2	bottom	-0.3397	0.6777	0.323294	0.213272	-1.36457	2.011154	
Missouri	st3	Run8002	U	E2	hillslope	-0.922	0.04334	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st3	Run8002	U	E2	Syx	1.893		4.11267	1.217787		12.36028	
Missouri	st4	Run1105	U	E2	top	107.6	2.222	101.5967	0.923307	89.13837	114.0549	
Missouri	st4	Run1105	U	E2	bottom	-0.1178	1.353	0.323294	0.213272	-1.36457	2.011154	
Missouri	st4	Run1105	U	E2	hillslope	-0.8648	0.06026	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1105	U	E2	Syx	3.636		4.11267	1.217787		12.36028	
Missouri	st4	Run1110	U	E2	top	85.17	3.842	101.5967	0.923307	89.13837	114.0549	Below
Missouri	st4	Run1110	U	E2	bottom	2.82	2.075	0.323294	0.213272	-1.36457	2.011154	Above
Missouri	st4	Run1110	U	E2	hillslope	-1.666	0.3044	-1.01977	0.035952	-1.91309	-0.12645	
Missouri	st4	Run1110	U	E2	Syx	7.356		4.11267	1.217787		12.36028	

Table E-9. FWA Assay, Parameter Estimates for the Acceptable NE Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st1	Run20081123	A	NE	top	87.25	2.52	101.1502	2.010717	76.83479	125.4657	
Ceetox	st1	Run20081123	A	NE	bottom	9.561	2.76	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st1	Run20081123	A	NE	hillslope	-1.589	0.2819	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st1	Run20081123	A	NE	Syx	6.408		4.014853	1.155149		9.26666	
Ceetox	st1	Run20081124	A	NE	top	87.7	4.002	101.1502	2.010717	76.83479	125.4657	
Ceetox	st1	Run20081124	A	NE	bottom	0.516	4.848	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st1	Run20081124	A	NE	hillslope	-0.9256	0.183	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st1	Run20081124	A	NE	Syx	7.255		4.014853	1.155149		9.26666	
Ceetox	st1	Run20081218	A	NE	top	93.44	2.797	101.1502	2.010717	76.83479	125.4657	
Ceetox	st1	Run20081218	A	NE	bottom	4.302	3.174	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st1	Run20081218	A	NE	hillslope	-1.18	0.1756	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st1	Run20081218	A	NE	Syx	6.063		4.014853	1.155149		9.26666	
Ceetox	st2	Run20090124 BAD	A	NE	top	83.44	2.35	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090124 BAD	A	NE	bottom	6.112	2.598	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st2	Run20090124 BAD	A	NE	hillslope	-1.322	0.1997	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090124 BAD	A	NE	Syx	5.437		4.014853	1.155149		9.26666	
Ceetox	st2	Run20090202 BAD	A	NE	top	86.58	3.643	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090202 BAD	A	NE	bottom	-1.926	4.504	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st2	Run20090202 BAD	A	NE	hillslope	-1.191	0.2584	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090202 BAD	A	NE	Syx	8.126		4.014853	1.155149		9.26666	
Ceetox	st2	Run20090223	A	NE	top	94.26	1.61	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090223	A	NE	bottom	10.39	2.022	2.233025	0.733861	-5.42485	9.8909	Above
Ceetox	st2	Run20090223	A	NE	hillslope	-1.54	0.1778	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090223	A	NE	Syx	4.241		4.014853	1.155149		9.26666	
Ceetox	st2	Run20090307	A	NE	top	104.3	2.315	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090307	A	NE	bottom	4.01	2.676	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st2	Run20090307	A	NE	hillslope	-0.9348	0.0913	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090307	A	NE	Syx	4.169		4.014853	1.155149		9.26666	
Ceetox	st2	Run20090326	A	NE	top	107.5	8.444	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090326	A	NE	bottom	6.24	4.468	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st2	Run20090326	A	NE	hillslope	-0.7778	0.1777	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090326	A	NE	Syx	8.495		4.014853	1.155149		9.26666	
Ceetox	st3	Run20090418	A	NE	top	111.8	3.61	101.1502	2.010717	76.83479	125.4657	
Ceetox	st3	Run20090418	A	NE	bottom	1.535	4.345	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st3	Run20090418	A	NE	hillslope	-0.8563	0.1157	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st3	Run20090418	A	NE	Syx	6.035		4.014853	1.155149		9.26666	
Ceetox	st3	Run20090505	A	NE	top	95.98	2.403	101.1502	2.010717	76.83479	125.4657	
Ceetox	st3	Run20090505	A	NE	bottom	0.6021	2.639	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st3	Run20090505	A	NE	hillslope	-0.9611	0.1013	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st3	Run20090505	A	NE	Syx	4.36		4.014853	1.155149		9.26666	
Ceetox	st4	Run20090911A	A	NE	top	99.74	2.442	101.1502	2.010717	76.83479	125.4657	
Ceetox	st4	Run20090911A	A	NE	bottom	5.832	3.277	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st4	Run20090911A	A	NE	hillslope	-1.189	0.1623	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st4	Run20090911A	A	NE	Syx	5.642		4.014853	1.155149		9.26666	
Ceetox	st4	Run20090914A	A	NE	top	96.23	2.562	101.1502	2.010717	76.83479	125.4657	
Ceetox	st4	Run20090914A	A	NE	bottom	8.423	3.516	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st4	Run20090914A	A	NE	hillslope	-1.305	0.2151	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st4	Run20090914A	A	NE	Syx	6.35		4.014853	1.155149		9.26666	
Ceetox	st4	Run20090917A	A	NE	top	92.65	2.234	101.1502	2.010717	76.83479	125.4657	
Ceetox	st4	Run20090917A	A	NE	bottom	10.5	2.831	2.233025	0.733861	-5.42485	9.8909	Above
Ceetox	st4	Run20090917A	A	NE	hillslope	-1.335	0.1983	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st4	Run20090917A	A	NE	Syx	5.462		4.014853	1.155149		9.26666	
Dietrich	st1	Assay03	A	NE	top	100.3	3.144	101.1502	2.010717	76.83479	125.4657	
Dietrich	st1	Assay03	A	NE	bottom	3.191	8.184	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st1	Assay03	A	NE	hillslope	-1.131	0.2594	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st1	Assay03	A	NE	Syx	8.268		4.014853	1.155149		9.26666	
Dietrich	st2	Assay04	A	NE	top	101.3	4.004	101.1502	2.010717	76.83479	125.4657	
Dietrich	st2	Assay04	A	NE	bottom	8.795	3.269	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st2	Assay04	A	NE	hillslope	-1.191	0.2113	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st2	Assay04	A	NE	Syx	7.554		4.014853	1.155149		9.26666	
Dietrich	st2	Assay05	A	NE	top	101.8	1.707	101.1502	2.010717	76.83479	125.4657	
Dietrich	st2	Assay05	A	NE	bottom	2.747	1.663	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st2	Assay05	A	NE	hillslope	-1.111	0.08149	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st2	Assay05	A	NE	Syx	3.329		4.014853	1.155149		9.26666	
Dietrich	st2	Assay06	A	NE	top	86.61	2.992	101.1502	2.010717	76.83479	125.4657	
Dietrich	st2	Assay06	A	NE	bottom	-1.545	3.986	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st2	Assay06	A	NE	hillslope	-1.25	0.2291	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st2	Assay06	A	NE	Syx	7.141		4.014853	1.155149		9.26666	
Dietrich	st2	Assay15	A	NE	top	119.1	2.234	101.1502	2.010717	76.83479	125.4657	
Dietrich	st2	Assay15	A	NE	bottom	6.738	2.525	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st2	Assay15	A	NE	hillslope	-0.9707	0.08236	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st2	Assay15	A	NE	Syx	4.133		4.014853	1.155149		9.26666	
Dietrich	st2	Assay16	A	NE	top	107.9	2.613	101.1502	2.010717	76.83479	125.4657	
Dietrich	st2	Assay16	A	NE	bottom	5.601	3.067	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st2	Assay16	A	NE	hillslope	-0.8866	0.09393	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st2	Assay16	A	NE	Syx	4.49		4.014853	1.155149		9.26666	
Dietrich	st3	Assay09	A	NE	top	92.51	3.006	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay09	A	NE	bottom	1.25	3.387	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay09	A	NE	hillslope	-0.8539	0.1123	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay09	A	NE	Syx	4.895		4.014853	1.155149		9.26666	
Dietrich	st3	Assay10_Part 1	A	NE	top	69.75	3.004	101.1502	2.010717	76.83479	125.4657	Below
Dietrich	st3	Assay10_Part 1	A	NE	bottom	4.139	3.042	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay10_Part 1	A	NE	hillslope	-1.138	0.2287	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay10_Part 1	A	NE	Syx	6.063		4.014853	1.155149		9.26666	
Dietrich	st3	Assay11	A	NE	top	87.4	4.215	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay11	A	NE	bottom	5.471	4.246	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Dietrich	st3	Assay11	A	NE	hillslope	-1.141	0.2572	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay11	A	NE	Syx	8.502		4.014853	1.155149		9.26666	
Dietrich	st3	Assay12_Part 1	A	NE	top	87.86	2.871	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay12_Part 1	A	NE	bottom	1.78	3.47	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay12_Part 1	A	NE	hillslope	-0.9209	0.1318	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay12_Part 1	A	NE	Syx	5.176		4.014853	1.155149		9.26666	
Dietrich	st3	Assay13	A	NE	top	98.2	2.05	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay13	A	NE	bottom	0.988	2.316	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay13	A	NE	hillslope	-0.8936	0.07704	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay13	A	NE	Syx	3.504		4.014853	1.155149		9.26666	
Dietrich	st3	Assay14_Part 1	A	NE	top	84.02	2.789	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay14_Part 1	A	NE	bottom	4.512	3.365	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay14_Part 1	A	NE	hillslope	-1.063	0.1727	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay14_Part 1	A	NE	Syx	5.71		4.014853	1.155149		9.26666	
Dietrich	st3	Assay15	A	NE	top	119.1	2.234	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay15	A	NE	bottom	6.738	2.525	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay15	A	NE	hillslope	-0.9707	0.08236	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay15	A	NE	Syx	4.133		4.014853	1.155149		9.26666	
Dietrich	st3	Assay16	A	NE	top	107.9	2.613	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay16	A	NE	bottom	5.601	3.067	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay16	A	NE	hillslope	-0.8866	0.09393	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay16	A	NE	Syx	4.49		4.014853	1.155149		9.26666	
Freyberger	st2	A	A	NE	top	101.1	1.315	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	A	A	NE	bottom	2.751	1.288	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	A	A	NE	hillslope	-0.9461	0.04974	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	A	A	NE	Syx	2.249		4.014853	1.155149		9.26666	
Freyberger	st2	B	A	NE	top	97.67	1.456	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	B	A	NE	bottom	3.573	1.394	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	B	A	NE	hillslope	-0.9451	0.05686	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	B	A	NE	Syx	2.464		4.014853	1.155149		9.26666	
Freyberger	st2	D	A	NE	top	108.2	1.237	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	D	A	NE	bottom	1.54	1.466	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	D	A	NE	hillslope	-0.8895	0.04306	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	D	A	NE	Syx	2.14		4.014853	1.155149		9.26666	
Freyberger	st3	CODE A	A	NE	top	105.4	1.081	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE A	A	NE	bottom	4.455	1.261	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st3	CODE A	A	NE	hillslope	-1.025	0.04901	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st3	CODE A	A	NE	Syx	2.122		4.014853	1.155149		9.26666	
Freyberger	st3	CODE A1	A	NE	top	105.9	3.894	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE A1	A	NE	bottom	-1.727	4.599	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st3	CODE A1	A	NE	hillslope	-0.7076	0.09548	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st3	CODE A1	A	NE	Syx	5.122		4.014853	1.155149		9.26666	
Freyberger	st3	CODE AB	A	NE	top	101.2	3.064	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE AB	A	NE	bottom	2.796	3.08	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Freyberger	st3	CODE AB	A	NE	hillslope	-0.8713	0.1037	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st3	CODE AB	A	NE	Syx	4.883		4.014853	1.155149		9.26666	
Freyberger	st3	CODE B	A	NE	top	100.6	0.8527	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE B	A	NE	bottom	3.318	0.8956	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st3	CODE B	A	NE	hillslope	-0.9363	0.03319	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st3	CODE B	A	NE	Syx	1.485		4.014853	1.155149		9.26666	
Freyberger	st3	CODE B2	A	NE	top	99.25	3.805	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE B2	A	NE	bottom	0.9032	4.239	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st3	CODE B2	A	NE	hillslope	-0.8261	0.1249	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st3	CODE B2	A	NE	Syx	5.951		4.014853	1.155149		9.26666	
JapanCERI	st1	20090113_01	A	NE	top	90.23	1.689	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st1	20090113_01	A	NE	bottom	1.172	1.475	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st1	20090113_01	A	NE	hillslope	-0.9332	0.06563	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st1	20090113_01	A	NE	Syx	2.717		4.014853	1.155149		9.26666	
JapanCERI	st1	20090121_02	A	NE	top	99.31	1.086	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st1	20090121_02	A	NE	bottom	2.28	0.859	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st1	20090121_02	A	NE	hillslope	-0.9194	0.03631	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st1	20090121_02	A	NE	Syx	1.648		4.014853	1.155149		9.26666	
JapanCERI	st1	20090128_03	A	NE	top	99.9	1.44	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st1	20090128_03	A	NE	bottom	0.9434	1.268	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st1	20090128_03	A	NE	hillslope	-0.8514	0.04416	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st1	20090128_03	A	NE	Syx	2.121		4.014853	1.155149		9.26666	
JapanCERI	st2	20090422_01	A	NE	top	103.3	1.253	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st2	20090422_01	A	NE	bottom	1.322	0.9332	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st2	20090422_01	A	NE	hillslope	-0.9155	0.03862	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st2	20090422_01	A	NE	Syx	1.841		4.014853	1.155149		9.26666	
JapanCERI	st2	20090427_02	A	NE	top	104.9	1.615	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st2	20090427_02	A	NE	bottom	3.592	1.139	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st2	20090427_02	A	NE	hillslope	-0.9552	0.05212	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st2	20090427_02	A	NE	Syx	2.403		4.014853	1.155149		9.26666	
JapanCERI	st2	20090430_03	A	NE	top	98.71	1.033	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st2	20090430_03	A	NE	bottom	0.9278	0.8088	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st2	20090430_03	A	NE	hillslope	-0.9261	0.0345	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st2	20090430_03	A	NE	Syx	1.572		4.014853	1.155149		9.26666	
JapanCERI	st3	091021_01	A	NE	top	99.69	1.847	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091021_01	A	NE	bottom	-0.6395	1.265	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091021_01	A	NE	hillslope	-0.8521	0.05034	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091021_01	A	NE	Syx	2.417		4.014853	1.155149		9.26666	
JapanCERI	st3	091026_02	A	NE	top	104.8	2.566	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091026_02	A	NE	bottom	0.01609	1.517	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091026_02	A	NE	hillslope	-0.782	0.05572	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091026_02	A	NE	Syx	2.791		4.014853	1.155149		9.26666	
JapanCERI	st3	091105_03	A	NE	top	103.3	4.188	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091105_03	A	NE	bottom	-0.5059	2.982	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
JapanCERI	st3	091105_03	A	NE	hillslope	-0.851	0.1119	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091105_03	A	NE	Syx	5.582		4.014853	1.155149		9.26666	
JapanCERI	st3	091109_04	A	NE	top	102.9	1.47	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091109_04	A	NE	bottom	-0.7862	0.9984	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091109_04	A	NE	hillslope	-0.8565	0.0389	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091109_04	A	NE	Syx	1.926		4.014853	1.155149		9.26666	
JapanCERI	st3	091111_06	A	NE	top	103.4	1.77	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091111_06	A	NE	bottom	-1.287	1.305	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091111_06	A	NE	hillslope	-0.8718	0.04925	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091111_06	A	NE	Syx	2.464		4.014853	1.155149		9.26666	
JapanCERI	st3	091116_08	A	NE	top	104.1	1.881	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091116_08	A	NE	bottom	0.8289	1.273	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091116_08	A	NE	hillslope	-0.819	0.0468	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091116_08	A	NE	Syx	2.337		4.014853	1.155149		9.26666	
JapanCERI	st3	091119_11	A	NE	top	106.7	2.3	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091119_11	A	NE	bottom	0.3295	1.55	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091119_11	A	NE	hillslope	-0.9262	0.06633	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091119_11	A	NE	Syx	3.251		4.014853	1.155149		9.26666	
Lovelace	st1	Run16Dec08	A	NE	top	122.6	4.321	101.1502	2.010717	76.83479	125.4657	
Lovelace	st1	Run16Dec08	A	NE	bottom	8.313	5.444	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st1	Run16Dec08	A	NE	hillslope	-1.008	0.1754	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st1	Run16Dec08	A	NE	Syx	8.587		4.014853	1.155149		9.26666	
Lovelace	st12	Run06Oct09	A	NE	top	123.2	1.964	101.1502	2.010717	76.83479	125.4657	
Lovelace	st12	Run06Oct09	A	NE	bottom	6.671	2.22	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run06Oct09	A	NE	hillslope	-0.9517	0.06775	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run06Oct09	A	NE	Syx	3.569		4.014853	1.155149		9.26666	
Lovelace	st12	Run09July10 EtOH_Buffer	A	NE	top	102.1	2.005	101.1502	2.010717	76.83479	125.4657	
Lovelace	st12	Run09July10 EtOH_Buffer	A	NE	bottom	4.864	1.73	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run09July10 EtOH_Buffer	A	NE	hillslope	-0.8813	0.06523	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run09July10 EtOH_Buffer	A	NE	Syx	3.035		4.014853	1.155149		9.26666	
Lovelace	st12	Run09Oct09 EtOH	A	NE	top	113.2	2.324	101.1502	2.010717	76.83479	125.4657	
Lovelace	st12	Run09Oct09 EtOH	A	NE	bottom	-1.417	2.991	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run09Oct09 EtOH	A	NE	hillslope	-0.8271	0.07023	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run09Oct09 EtOH	A	NE	Syx	3.825		4.014853	1.155149		9.26666	
Lovelace	st12	Run14Oct09 EtOH	A	NE	top	110	4.458	101.1502	2.010717	76.83479	125.4657	
Lovelace	st12	Run14Oct09 EtOH	A	NE	bottom	-5.157	6.64	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run14Oct09 EtOH	A	NE	hillslope	-0.7725	0.1293	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run14Oct09 EtOH	A	NE	Syx	7.064		4.014853	1.155149		9.26666	
Lovelace	st12	Run25Sep09 EtOH	A	NE	top	100.6	4.742	101.1502	2.010717	76.83479	125.4657	
Lovelace	st12	Run25Sep09 EtOH	A	NE	bottom	4.233	4.654	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run25Sep09 EtOH	A	NE	hillslope	-1.185	0.2575	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run25Sep09 EtOH	A	NE	Syx	9.715		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run01May09EtOH	A	NE	top	100.4	2.449	101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run01May09EtOH	A	NE	bottom	8.912	2.61	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st2	Run01May09EtOH	A	NE	hillslope	-1.046	0.1206	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run01May09EtOH	A	NE	Syx	4.728		4.014853	1.155149		9.26666	
Lovelace	st2	Run21April09EtOH	A	NE	top	123.8	4.214	101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run21April09EtOH	A	NE	bottom	-1.268	4.156	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run21April09EtOH	A	NE	hillslope	-0.7302	0.0859	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run21April09EtOH	A	NE	Syx	5.397		4.014853	1.155149		9.26666	
Lovelace	st2	Run24Feb09EtOH	A	NE	top	105.5	3.795	101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run24Feb09EtOH	A	NE	bottom	-2.363	3.862	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run24Feb09EtOH	A	NE	hillslope	-0.7713	0.09848	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run24Feb09EtOH	A	NE	Syx	5.287		4.014853	1.155149		9.26666	
Lovelace	st3	Run19Jun09EtOH	A	NE	top	98.75	2.102	101.1502	2.010717	76.83479	125.4657	
Lovelace	st3	Run19Jun09EtOH	A	NE	bottom	-1.097	2.29	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run19Jun09EtOH	A	NE	hillslope	-0.8476	0.06984	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run19Jun09EtOH	A	NE	Syx	3.354		4.014853	1.155149		9.26666	
Lovelace	st3	Run30Jun09EtOH	A	NE	top	105.8	3.514	101.1502	2.010717	76.83479	125.4657	
Lovelace	st3	Run30Jun09EtOH	A	NE	bottom	-0.8078	3.475	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run30Jun09EtOH	A	NE	hillslope	-0.7111	0.08095	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run30Jun09EtOH	A	NE	Syx	4.343		4.014853	1.155149		9.26666	
Missouri	st1	Run3005	A	NE	top	106.3	2.817	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run3005	A	NE	bottom	6.123	2.472	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run3005	A	NE	hillslope	-1.023	0.112	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run3005	A	NE	Syx	4.924		4.014853	1.155149		9.26666	
Missouri	st1	Run3006	A	NE	top	90.53	2.083	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run3006	A	NE	bottom	3.662	1.621	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run3006	A	NE	hillslope	-1.082	0.09861	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run3006	A	NE	Syx	3.595		4.014853	1.155149		9.26666	
Missouri	st1	Run3008	A	NE	top	106.5	2.074	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run3008	A	NE	bottom	3.215	1.538	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run3008	A	NE	hillslope	-0.8259	0.05419	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run3008	A	NE	Syx	2.727		4.014853	1.155149		9.26666	
Missouri	st1	Run7003	A	NE	top	102.2	1.574	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run7003	A	NE	bottom	0.8183	1.544	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run7003	A	NE	hillslope	-0.9501	0.05819	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run7003	A	NE	Syx	2.705		4.014853	1.155149		9.26666	
Missouri	st1	Run7004	A	NE	top	109.3	2.413	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run7004	A	NE	bottom	0.7381	2.143	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run7004	A	NE	hillslope	-0.9441	0.07886	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run7004	A	NE	Syx	3.954		4.014853	1.155149		9.26666	
Missouri	st1	Run7005	A	NE	top	101.2	1.552	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run7005	A	NE	bottom	0.09925	1.397	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run7005	A	NE	hillslope	-0.8916	0.05033	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run7005	A	NE	Syx	2.421		4.014853	1.155149		9.26666	
Missouri	st1	Run7006	A	NE	top	110.6	4.08	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run7006	A	NE	bottom	1.228	3.359	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st1	Run7006	A	NE	hillslope	-0.7913	0.09878	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run7006	A	NE	Syx	5.359		4.014853	1.155149		9.26666	
Missouri	st1	Run7007	A	NE	top	107.8	1.584	101.1502	2.010717	76.83479	125.4657	
Missouri	st1	Run7007	A	NE	bottom	0.9203	1.448	2.233025	0.733861	-5.42485	9.8909	
Missouri	st1	Run7007	A	NE	hillslope	-0.8423	0.04498	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st1	Run7007	A	NE	Syx	2.342		4.014853	1.155149		9.26666	
Missouri	st2	Run9003	A	NE	top	105.5	1.188	101.1502	2.010717	76.83479	125.4657	
Missouri	st2	Run9003	A	NE	bottom	0.1107	1.264	2.233025	0.733861	-5.42485	9.8909	
Missouri	st2	Run9003	A	NE	hillslope	-0.951	0.04393	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st2	Run9003	A	NE	Syx	2.109		4.014853	1.155149		9.26666	
Missouri	st2	Run9004	A	NE	top	102.1	1.822	101.1502	2.010717	76.83479	125.4657	
Missouri	st2	Run9004	A	NE	bottom	1.952	1.972	2.233025	0.733861	-5.42485	9.8909	
Missouri	st2	Run9004	A	NE	hillslope	-0.972	0.07387	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st2	Run9004	A	NE	Syx	3.322		4.014853	1.155149		9.26666	
Missouri	st2	Run9005	A	NE	top	99.05	2.043	101.1502	2.010717	76.83479	125.4657	
Missouri	st2	Run9005	A	NE	bottom	-0.9134	2.141	2.233025	0.733861	-5.42485	9.8909	
Missouri	st2	Run9005	A	NE	hillslope	-1.001	0.08542	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st2	Run9005	A	NE	Syx	3.775		4.014853	1.155149		9.26666	
Missouri	st2	Run9007	A	NE	top	99.57	2.872	101.1502	2.010717	76.83479	125.4657	
Missouri	st2	Run9007	A	NE	bottom	-2.793	2.857	2.233025	0.733861	-5.42485	9.8909	
Missouri	st2	Run9007	A	NE	hillslope	-0.8204	0.0851	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st2	Run9007	A	NE	Syx	4.269		4.014853	1.155149		9.26666	
Missouri	st3	Run8003	A	NE	top	96.53	1.595	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8003	A	NE	bottom	-0.3032	3.011	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8003	A	NE	hillslope	-0.9015	0.07882	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8003	A	NE	Syx	3.2		4.014853	1.155149		9.26666	
Missouri	st3	Run8004	A	NE	top	106.3	2.985	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8004	A	NE	bottom	1.952	3.048	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8004	A	NE	hillslope	-0.9693	0.1125	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8004	A	NE	Syx	5.307		4.014853	1.155149		9.26666	
Missouri	st3	Run8005	A	NE	top	92.07	2.114	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8005	A	NE	bottom	-0.3448	3.386	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8005	A	NE	hillslope	-0.8589	0.09345	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8005	A	NE	Syx	3.869		4.014853	1.155149		9.26666	
Missouri	st3	Run8101	A	NE	top	107.8	2.653	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8101	A	NE	bottom	-1.618	2.576	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8101	A	NE	hillslope	-0.7602	0.06507	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8101	A	NE	Syx	3.561		4.014853	1.155149		9.26666	
Missouri	st3	Run8102	A	NE	top	95.74	2.27	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8102	A	NE	bottom	-0.1939	2.334	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8102	A	NE	hillslope	-0.8221	0.07306	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8102	A	NE	Syx	3.426		4.014853	1.155149		9.26666	
Missouri	st3	Run8107	A	NE	top	107.6	5.583	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8107	A	NE	bottom	-4.246	5.628	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Missouri	st3	Run8107	A	NE	hillslope	-0.5927	0.09479	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8107	A	NE	Syx	5.19		4.014853	1.155149		9.26666	
Missouri	st4	Run1101	A	NE	top	117.5	4.362	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1101	A	NE	bottom	2.224	3.935	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1101	A	NE	hillslope	-0.916	0.134	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1101	A	NE	Syx	6.923		4.014853	1.155149		9.26666	
Missouri	st4	Run1102	A	NE	top	106.9	3.412	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1102	A	NE	bottom	2.997	3.476	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1102	A	NE	hillslope	-0.8624	0.1084	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1102	A	NE	Syx	5.408		4.014853	1.155149		9.26666	
Missouri	st4	Run1103	A	NE	top	96.97	2.973	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1103	A	NE	bottom	-5.149	4.028	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1103	A	NE	hillslope	-0.7122	0.08262	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1103	A	NE	Syx	4.137		4.014853	1.155149		9.26666	
Missouri	st4	Run1104	A	NE	top	110.6	3.174	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1104	A	NE	bottom	4.367	3.328	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1104	A	NE	hillslope	-0.8944	0.1055	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1104	A	NE	Syx	5.282		4.014853	1.155149		9.26666	
Missouri	st4	Run1106	A	NE	top	103.3	2.009	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1106	A	NE	bottom	2.723	1.994	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1106	A	NE	hillslope	-1.07	0.09008	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1106	A	NE	Syx	3.838		4.014853	1.155149		9.26666	
Missouri	st4	Run1107	A	NE	top	114.6	1.61	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1107	A	NE	bottom	-1.845	1.649	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1107	A	NE	hillslope	-0.7609	0.03805	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1107	A	NE	Syx	2.21		4.014853	1.155149		9.26666	
Missouri	st4	Run1108	A	NE	top	96.26	1.569	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1108	A	NE	bottom	-5.248	1.309	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1108	A	NE	hillslope	-0.9096	0.05049	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1108	A	NE	Syx	2.415		4.014853	1.155149		9.26666	
Missouri	st4	Run1109	A	NE	top	99.39	4.744	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1109	A	NE	bottom	-10.36	4.008	2.233025	0.733861	-5.42485	9.8909	Below
Missouri	st4	Run1109	A	NE	hillslope	-0.782	0.1138	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1109	A	NE	Syx	6.214		4.014853	1.155149		9.26666	
Missouri	st4	Run1110	A	NE	top	89.77	3.037	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1110	A	NE	bottom	3.647	3.306	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1110	A	NE	hillslope	-0.9839	0.1463	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1110	A	NE	Syx	5.609		4.014853	1.155149		9.26666	

Table E-10. FWA Assay, Parameter Estimates for the Unacceptable NE Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Ceetox	st3	Run20090418 DMS	DMSO(A)	NE	top	104.9	3.156	101.1502	2.010717	76.83479	125.4657	
Ceetox	st3	Run20090418 DMS	DMSO(A)	NE	bottom	2.711	3.502	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st3	Run20090418 DMS	DMSO(A)	NE	hillslope	-1.01	0.1346	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st3	Run20090418 DMS	DMSO(A)	NE	Syx	6.009		4.014853	1.155149		9.26666	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	NE	top	90.81	3.239	101.1502	2.010717	76.83479	125.4657	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	NE	bottom	1.62	3.835	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	NE	hillslope	-0.9113	0.1398	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st3	Run20090505 DMSO	DMSO(A)	NE	Syx	5.739		4.014853	1.155149		9.26666	
Ceetox	st3	Run20090514 DMSO	DMSO(A)	NE	top	95.51	2.416	101.1502	2.010717	76.83479	125.4657	
Ceetox	st3	Run20090514 DMSO	DMSO(A)	NE	bottom	10.48	2.959	2.233025	0.733861	-5.42485	9.8909	Above
Ceetox	st3	Run20090514 DMSO	DMSO(A)	NE	hillslope	-1.258	0.184	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st3	Run20090514 DMSO	DMSO(A)	NE	Syx	5.625		4.014853	1.155149		9.26666	
Freyberger	st2	E	DMSO(A)	NE	top	99.88	1.18	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	E	DMSO(A)	NE	bottom	1.359	1.183	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	E	DMSO(A)	NE	hillslope	-0.8943	0.04141	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	E	DMSO(A)	NE	Syx	1.93		4.014853	1.155149		9.26666	
Freyberger	st2	F	DMSO(A)	NE	top	100.4	1.963	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	F	DMSO(A)	NE	bottom	3.15	1.7	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	F	DMSO(A)	NE	hillslope	-0.9979	0.077	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	F	DMSO(A)	NE	Syx	3.341		4.014853	1.155149		9.26666	
Freyberger	st2	G	DMSO(A)	NE	top	86.43	1.274	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	G	DMSO(A)	NE	bottom	4.953	1.207	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	G	DMSO(A)	NE	hillslope	-1.16	0.07807	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	G	DMSO(A)	NE	Syx	2.534		4.014853	1.155149		9.26666	
JapanCERI	st3	091110_05	DMSO(A)	NE	top	100.9	2.944	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091110_05	DMSO(A)	NE	bottom	0.08526	1.97	2.233025	0.733861	-5.42485	9.8909	

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
JapanCERI	st3	091110_05	DMSO(A)	NE	hillslope	-0.8589	0.08002	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091110_05	DMSO(A)	NE	Syx	3.839		4.014853	1.155149		9.26666	
JapanCERI	st3	091112_07	DMSO(A)	NE	top	102.4	2.426	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091112_07	DMSO(A)	NE	bottom	-1.66	1.592	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091112_07	DMSO(A)	NE	hillslope	-0.8555	0.06302	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091112_07	DMSO(A)	NE	Syx	3.118		4.014853	1.155149		9.26666	
JapanCERI	st3	091117_09	DMSO(A)	NE	top	100.3	2.65	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091117_09	DMSO(A)	NE	bottom	1.967	1.611	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091117_09	DMSO(A)	NE	hillslope	-0.9224	0.07883	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091117_09	DMSO(A)	NE	Syx	3.532		4.014853	1.155149		9.26666	
JapanCERI	st3	091118_10	DMSO(A)	NE	top	102.6	1.702	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091118_10	DMSO(A)	NE	bottom	1.664	1.069	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091118_10	DMSO(A)	NE	hillslope	-0.9321	0.05077	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091118_10	DMSO(A)	NE	Syx	2.333		4.014853	1.155149		9.26666	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	NE	top	104.5	4.182	101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	NE	bottom	6.286	2.818	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	NE	hillslope	-0.9845	0.1429	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run17Feb09DMSO	DMSO(A)	NE	Syx	6.246		4.014853	1.155149		9.26666	
Missouri	st3	Run8201 DMSO	DMSO(A)	NE	top	93.66	1.159	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8201 DMSO	DMSO(A)	NE	bottom	0.07747	0.9798	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8201 DMSO	DMSO(A)	NE	hillslope	-0.8431	0.03639	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8201 DMSO	DMSO(A)	NE	Syx	1.659		4.014853	1.155149		9.26666	
Missouri	st3	Run8203 DMSO	DMSO(A)	NE	top	94.2	2.443	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8203 DMSO	DMSO(A)	NE	bottom	2.688	2.013	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8203 DMSO	DMSO(A)	NE	hillslope	-1.036	0.1054	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8203 DMSO	DMSO(A)	NE	Syx	4.191		4.014853	1.155149		9.26666	
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	NE	top	147.4	7.937	101.1502	2.010717	76.83479	125.4657	Above

Laboratory	SubTask	TestID	Acceptance	Chemical	Parameter	Estimate	Std Error	Mean	Std Error (Mean)	Tolerance Lower	Tolerance Upper	Status
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	NE	bottom	-6.392	5.638	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	NE	hillslope	-0.7123	0.1103	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run14Feb09DMSO	DMSO(U)	NE	Syx	8.409		4.014853	1.155149		9.26666	
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	NE	top	132.3	4.034	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	NE	bottom	1.349	3.159	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	NE	hillslope	-0.8875	0.09449	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run19Feb09DMSO	DMSO(U)	NE	Syx	5.886		4.014853	1.155149		9.26666	
Lovelace	st3	Run03May09DMSO	DMSO(U)	NE	top	143.5	6.659	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run03May09DMSO	DMSO(U)	NE	bottom	12.39	7.022	2.233025	0.733861	-5.42485	9.8909	Above
Lovelace	st3	Run03May09DMSO	DMSO(U)	NE	hillslope	-1.283	0.3101	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run03May09DMSO	DMSO(U)	NE	Syx	14.83		4.014853	1.155149		9.26666	Above
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	NE	top	132.9	3.037	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	NE	bottom	9.605	2.646	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	NE	hillslope	-1.258	0.1345	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run03May09DMSO_2	DMSO(U)	NE	Syx	6.117		4.014853	1.155149		9.26666	
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	NE	top	127.1	2.894	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	NE	bottom	-11.55	3.187	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	NE	hillslope	-0.801	0.06399	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run03May09DMSO_3	DMSO(U)	NE	Syx	4.35		4.014853	1.155149		9.26666	
Missouri	st3	Run8202 DMSO	DMSO(U)	NE	top	81.45	0.9288	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8202 DMSO	DMSO(U)	NE	bottom	1.228	0.7933	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8202 DMSO	DMSO(U)	NE	hillslope	-0.9162	0.03863	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8202 DMSO	DMSO(U)	NE	Syx	1.455		4.014853	1.155149		9.26666	
Ceetox	st2	Run20090128 BAD	U	NE	top	72.81	3.16	101.1502	2.010717	76.83479	125.4657	Below
Ceetox	st2	Run20090128 BAD	U	NE	bottom	4.687	3.581	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st2	Run20090128 BAD	U	NE	hillslope	-1.342	0.3171	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090128 BAD	U	NE	Syx	7.449		4.014853	1.155149		9.26666	

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Ceetox	st2	Run20090213 TEST4	U	NE	top	81.58	5.844	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090213 TEST4	U	NE	bottom	5.833	5.844	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st2	Run20090213 TEST4	U	NE	hillslope			-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090213 TEST4	U	NE	Syx	20.24		4.014853	1.155149		9.26666	Above
Ceetox	st2	Run20090213 TEST4_2	U	NE	top	82.81	5.401	101.1502	2.010717	76.83479	125.4657	
Ceetox	st2	Run20090213 TEST4_2	U	NE	bottom	16.43	5.401	2.233025	0.733861	-5.42485	9.8909	Above
Ceetox	st2	Run20090213 TEST4_2	U	NE	hillslope			-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st2	Run20090213 TEST4_2	U	NE	Syx	18.71		4.014853	1.155149		9.26666	Above
Ceetox	st3	Run20090426	U	NE	top	108.1	1.499	101.1502	2.010717	76.83479	125.4657	
Ceetox	st3	Run20090426	U	NE	bottom	2.797	4.532	2.233025	0.733861	-5.42485	9.8909	
Ceetox	st3	Run20090426	U	NE	hillslope	-1.66	0.2116	-0.95808	0.04408	-2.04888	0.132712	
Ceetox	st3	Run20090426	U	NE	Syx	5.05		4.014853	1.155149		9.26666	
Dietrich	st1	Assay01	U	NE	top	205.4	6.394	101.1502	2.010717	76.83479	125.4657	Above
Dietrich	st1	Assay01	U	NE	bottom	15.8	11.91	2.233025	0.733861	-5.42485	9.8909	Above
Dietrich	st1	Assay01	U	NE	hillslope	-1.252	0.2712	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st1	Assay01	U	NE	Syx	16.87		4.014853	1.155149		9.26666	Above
Dietrich	st1	Assay02	U	NE	top	133.2	3.959	101.1502	2.010717	76.83479	125.4657	Above
Dietrich	st1	Assay02	U	NE	bottom	-9.912	11	2.233025	0.733861	-5.42485	9.8909	Below
Dietrich	st1	Assay02	U	NE	hillslope	-0.6568	0.09777	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st1	Assay02	U	NE	Syx	5.954		4.014853	1.155149		9.26666	
Dietrich	st3	Assay07	U	NE	top	109.2	4.631	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay07	U	NE	bottom	-4.078	6.134	2.233025	0.733861	-5.42485	9.8909	
Dietrich	st3	Assay07	U	NE	hillslope	-0.6062	0.09076	-0.95808	0.04408	-2.04888	0.132712	
Dietrich	st3	Assay07	U	NE	Syx	5.003		4.014853	1.155149		9.26666	
Dietrich	st3	Assay08	U	NE	top	122.4	10.36	101.1502	2.010717	76.83479	125.4657	
Dietrich	st3	Assay08	U	NE	bottom	-11.88	10.49	2.233025	0.733861	-5.42485	9.8909	Below
Dietrich	st3	Assay08	U	NE	hillslope	-0.4621	0.1039	-0.95808	0.04408	-2.04888	0.132712	

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Dietrich	st3	Assay08	U	NE	Syx	5.686		4.014853	1.155149		9.26666	
Freyberger	st2	C	U	NE	top	83.13	1.438	101.1502	2.010717	76.83479	125.4657	
Freyberger	st2	C	U	NE	bottom	2.843	1.476	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st2	C	U	NE	hillslope	-0.9498	0.06851	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st2	C	U	NE	Syx	2.515		4.014853	1.155149		9.26666	
Freyberger	st3	CODE A2	U	NE	top	101	3.376	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE A2	U	NE	bottom	8.215	3.594	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st3	CODE A2	U	NE	hillslope	-1.834	0.3852	-0.95808	0.04408	-2.04888	0.132712	
Freyberger	st3	CODE A2	U	NE	Syx	9.008		4.014853	1.155149		9.26666	
Freyberger	st3	CODE B1	U	NE	top	93.03	2.636	101.1502	2.010717	76.83479	125.4657	
Freyberger	st3	CODE B1	U	NE	bottom	5.836	2.408	2.233025	0.733861	-5.42485	9.8909	
Freyberger	st3	CODE B1	U	NE	hillslope	-3.426	1.756	-0.95808	0.04408	-2.04888	0.132712	Below
Freyberger	st3	CODE B1	U	NE	Syx	7.317		4.014853	1.155149		9.26666	
JapanCERI	st3	091104_00	U	NE	top	119.4	7.932	101.1502	2.010717	76.83479	125.4657	
JapanCERI	st3	091104_00	U	NE	bottom	-2.695	3.624	2.233025	0.733861	-5.42485	9.8909	
JapanCERI	st3	091104_00	U	NE	hillslope	-0.6654	0.1039	-0.95808	0.04408	-2.04888	0.132712	
JapanCERI	st3	091104_00	U	NE	Syx	5.746		4.014853	1.155149		9.26666	
Lovelace	st1	Run03Dec08	U	NE	top	131.7	7.33	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st1	Run03Dec08	U	NE	bottom	8.104	14.25	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st1	Run03Dec08	U	NE	hillslope	-0.7048	0.1966	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st1	Run03Dec08	U	NE	Syx	11.17		4.014853	1.155149		9.26666	Above
Lovelace	st1	Run09Dec08	U	NE	top	137.5	8.681	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st1	Run09Dec08	U	NE	bottom	-8.326	17.03	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st1	Run09Dec08	U	NE	hillslope	-0.7003	0.1963	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st1	Run09Dec08	U	NE	Syx	13.14		4.014853	1.155149		9.26666	Above
Lovelace	st1	Run13Dec08	U	NE	top	106.7	3.187	101.1502	2.010717	76.83479	125.4657	
Lovelace	st1	Run13Dec08	U	NE	bottom	17.29	4.026	2.233025	0.733861	-5.42485	9.8909	Above

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Lovelace	st1	Run13Dec08	U	NE	hillslope	-1.294	0.2467	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st1	Run13Dec08	U	NE	Syx	7.639		4.014853	1.155149		9.26666	
Lovelace	st1	Run27Jan09	U	NE	top	114.6	9.213	101.1502	2.010717	76.83479	125.4657	
Lovelace	st1	Run27Jan09	U	NE	bottom	-4.77	8.134	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st1	Run27Jan09	U	NE	hillslope	-0.646	0.1568	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st1	Run27Jan09	U	NE	Syx	9.345		4.014853	1.155149		9.26666	Above
Lovelace	st12	Run09July10	U	NE	top	186.9	3.629	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st12	Run09July10	U	NE	bottom	9.169	3.123	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run09July10	U	NE	hillslope	-0.8806	0.06444	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run09July10	U	NE	Syx	5.482		4.014853	1.155149		9.26666	
Lovelace	st12	Run19Aug10EtOH	U	NE	top	623	11.55	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st12	Run19Aug10EtOH	U	NE	bottom	2.568	12.81	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run19Aug10EtOH	U	NE	hillslope	-1.092	0.09137	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run19Aug10EtOH	U	NE	Syx	23.43		4.014853	1.155149		9.26666	Above
Lovelace	st12	Run19Aug10EtOH_Buffer	U	NE	top	77.2	1.363	101.1502	2.010717	76.83479	125.4657	
Lovelace	st12	Run19Aug10EtOH_Buffer	U	NE	bottom	0.3089	1.507	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st12	Run19Aug10EtOH_Buffer	U	NE	hillslope	-1.108	0.0888	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st12	Run19Aug10EtOH_Buffer	U	NE	Syx	2.793		4.014853	1.155149		9.26666	
Lovelace	st2	Run06Feb09EtOH	U	NE	top	125.5	6.898	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st2	Run06Feb09EtOH	U	NE	bottom	-14.18	23.28	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st2	Run06Feb09EtOH	U	NE	hillslope	-0.761	0.2452	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run06Feb09EtOH	U	NE	Syx	12.81		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run09Feb09EtOH	U	NE	top	116.4	10.36	101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run09Feb09EtOH	U	NE	bottom	29.32	10.13	2.233025	0.733861	-5.42485	9.8909	Above
Lovelace	st2	Run09Feb09EtOH	U	NE	hillslope	-2.031	1.345	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run09Feb09EtOH	U	NE	Syx	22.5		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run10April09EtOH	U	NE	top			101.1502	2.010717	76.83479	125.4657	

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Lovelace	st2	Run10April09EtOH	U	NE	bottom			2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run10April09EtOH	U	NE	hillslope			-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run10April09EtOH	U	NE	Syx			4.014853	1.155149		9.26666	
Lovelace	st2	Run12Feb09EtOH	U	NE	top			101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run12Feb09EtOH	U	NE	bottom	2.678	8.849	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run12Feb09EtOH	U	NE	hillslope	-0.3076	0.162	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run12Feb09EtOH	U	NE	Syx	12.66		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run13May09EtOH	U	NE	top	156.8	44.66	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st2	Run13May09EtOH	U	NE	bottom	-162.9	558.4	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st2	Run13May09EtOH	U	NE	hillslope	-0.2977	0.3454	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run13May09EtOH	U	NE	Syx	18.83		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run16April09EtOH	U	NE	top	149.2	45.71	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st2	Run16April09EtOH	U	NE	bottom	-37.29	87.47	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st2	Run16April09EtOH	U	NE	hillslope	-0.3465	0.294	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run16April09EtOH	U	NE	Syx	16.9		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run24April09EtOH	U	NE	top	138	3.668	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st2	Run24April09EtOH	U	NE	bottom	0.2571	4.479	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run24April09EtOH	U	NE	hillslope	-0.7202	0.07321	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run24April09EtOH	U	NE	Syx	5.002		4.014853	1.155149		9.26666	
Lovelace	st2	Run28April09EtOH	U	NE	top	66.59	4.994	101.1502	2.010717	76.83479	125.4657	Below
Lovelace	st2	Run28April09EtOH	U	NE	bottom	17.8	5.907	2.233025	0.733861	-5.42485	9.8909	Above
Lovelace	st2	Run28April09EtOH	U	NE	hillslope	-1.753	1.148	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run28April09EtOH	U	NE	Syx	13.6		4.014853	1.155149		9.26666	Above
Lovelace	st2	Run28May09EtOH	U	NE	top	93.02	4.114	101.1502	2.010717	76.83479	125.4657	
Lovelace	st2	Run28May09EtOH	U	NE	bottom	7.974	4.23	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st2	Run28May09EtOH	U	NE	hillslope	-1.166	0.2525	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st2	Run28May09EtOH	U	NE	Syx	8.503		4.014853	1.155149		9.26666	

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Lovelace	st3	Run10Mar09EtOH	U	NE	top	120.5	4.796	101.1502	2.010717	76.83479	125.4657	
Lovelace	st3	Run10Mar09EtOH	U	NE	bottom	15.67	6.784	2.233025	0.733861	-5.42485	9.8909	Above
Lovelace	st3	Run10Mar09EtOH	U	NE	hillslope			-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run10Mar09EtOH	U	NE	Syx	16.61		4.014853	1.155149		9.26666	Above
Lovelace	st3	Run13Mar09EtOH	U	NE	top	133.1	8.67	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run13Mar09EtOH	U	NE	bottom	9.092	18.73	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run13Mar09EtOH	U	NE	hillslope	-0.6645	0.2231	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run13Mar09EtOH	U	NE	Syx	12.51		4.014853	1.155149		9.26666	Above
Lovelace	st3	Run17Jun09EtOH	U	NE	top	158.7	4.298	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run17Jun09EtOH	U	NE	bottom	-7.657	4.175	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st3	Run17Jun09EtOH	U	NE	hillslope	-0.6606	0.05656	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run17Jun09EtOH	U	NE	Syx	4.721		4.014853	1.155149		9.26666	
Lovelace	st3	Run20Mar09EtOH	U	NE	top	53	6.365	101.1502	2.010717	76.83479	125.4657	Below
Lovelace	st3	Run20Mar09EtOH	U	NE	bottom	3.873	7.093	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run20Mar09EtOH	U	NE	hillslope			-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run20Mar09EtOH	U	NE	Syx	19.84		4.014853	1.155149		9.26666	Above
Lovelace	st3	Run23Jun09EtOH	U	NE	top	148.4	3.72	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run23Jun09EtOH	U	NE	bottom	5.82	3.879	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run23Jun09EtOH	U	NE	hillslope	-0.8846	0.09042	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run23Jun09EtOH	U	NE	Syx	6.109		4.014853	1.155149		9.26666	
Lovelace	st3	Run24Mar09EtOH	U	NE	top	75.67	8.586	101.1502	2.010717	76.83479	125.4657	Below
Lovelace	st3	Run24Mar09EtOH	U	NE	bottom	3.675	11.1	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run24Mar09EtOH	U	NE	hillslope	-1.41	0.9655	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run24Mar09EtOH	U	NE	Syx	21.82		4.014853	1.155149		9.26666	Above
Lovelace	st3	Run25Jun09EtOH	U	NE	top	151.9	4.006	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run25Jun09EtOH	U	NE	bottom	2.54	4.07	2.233025	0.733861	-5.42485	9.8909	
Lovelace	st3	Run25Jun09EtOH	U	NE	hillslope	-0.7561	0.07289	-0.95808	0.04408	-2.04888	0.132712	

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Lovelace	st3	Run25Jun09EtOH	U	NE	Syx	5.438		4.014853	1.155149		9.26666	
Lovelace	st3	Run31Mar09EtOH	U	NE	top	375	18.55	101.1502	2.010717	76.83479	125.4657	Above
Lovelace	st3	Run31Mar09EtOH	U	NE	bottom	-6.865	18.41	2.233025	0.733861	-5.42485	9.8909	Below
Lovelace	st3	Run31Mar09EtOH	U	NE	hillslope	-1.098	0.2277	-0.95808	0.04408	-2.04888	0.132712	
Lovelace	st3	Run31Mar09EtOH	U	NE	Syx	36.15		4.014853	1.155149		9.26666	Above
Missouri	st3	Run8001	U	NE	top	80.63	2.12	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8001	U	NE	bottom	3.922	2.771	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8001	U	NE	hillslope	-1.111	0.1524	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8001	U	NE	Syx	4.618		4.014853	1.155149		9.26666	
Missouri	st3	Run8002	U	NE	top	76.31	1.004	101.1502	2.010717	76.83479	125.4657	Below
Missouri	st3	Run8002	U	NE	bottom	1.491	1.468	2.233025	0.733861	-5.42485	9.8909	
Missouri	st3	Run8002	U	NE	hillslope	-1.016	0.06824	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8002	U	NE	Syx	2.105		4.014853	1.155149		9.26666	
Missouri	st3	Run8108	U	NE	top	123.1	8.187	101.1502	2.010717	76.83479	125.4657	
Missouri	st3	Run8108	U	NE	bottom	-8.012	8.206	2.233025	0.733861	-5.42485	9.8909	Below
Missouri	st3	Run8108	U	NE	hillslope	-0.5362	0.1022	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st3	Run8108	U	NE	Syx	6.27		4.014853	1.155149		9.26666	
Missouri	st4	Run1105	U	NE	top	108.4	5.381	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1105	U	NE	bottom	11.59	5.307	2.233025	0.733861	-5.42485	9.8909	Above
Missouri	st4	Run1105	U	NE	hillslope	-0.8635	0.1812	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1105	U	NE	Syx	8.433		4.014853	1.155149		9.26666	
Missouri	st4	Run1111	U	NE	top	109.5	3.179	101.1502	2.010717	76.83479	125.4657	
Missouri	st4	Run1111	U	NE	bottom	9.649	3.266	2.233025	0.733861	-5.42485	9.8909	
Missouri	st4	Run1111	U	NE	hillslope	-0.8757	0.1079	-0.95808	0.04408	-2.04888	0.132712	
Missouri	st4	Run1111	U	NE	Syx	5.136		4.014853	1.155149		9.26666	

Table E-11. FWA Assay, Parameter Estimates for the Log₁₀RBA for the Acceptable E2 and NE Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	logic50 E2	logic50_E2 stderr	logic50_NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Acceptability (E2/NE)
Ceetox	st1	Run20081123	-8.743	0.04263	0.0458	-6.182	-2.561	0.06257	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st1	Run20081218	-8.78	0.05382	0.04404	-6.209	-2.571	0.069542	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st2	Run20090124 BAD	-9.363	0.03972	0.04394	-6.278	-3.085	0.059232	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st2	Run20090202 BAD	-9.167	0.03877	0.06724	-6.233	-2.934	0.077617	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st2	Run20090223	-8.451	0.05153	0.02791	-5.998	-2.453	0.058603	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st2	Run20090307	-8.738	0.04817	0.0315	-6.167	-2.571	0.057555	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st2	Run20090326	-8.591	0.03036	0.07091	-6.307	-2.284	0.077136	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st3	Run20090418	-8.742	0.04698	0.04478	-6.116	-2.626	0.064903	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st3	Run20090505	-8.816	0.03375	0.0333	-6.312	-2.504	0.047413	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st4	Run20090911A	-9.007	0.03182	0.03897	-5.994	-3.013	0.050311	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st4	Run20090914A	-8.776	0.03951	0.04415	-5.956	-2.82	0.059248	-2.54424	0.078816	-3.17184	-1.91665		A/A
Ceetox	st4	Run20090917A	-8.746	0.04212	0.04001	-6.029	-2.717	0.058094	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st1	Assay03	-8.845	0.06681	0.05988	-5.568	-3.277	0.089717	-2.54424	0.078816	-3.17184	-1.91665	Below	A/A
Dietrich	st2	Assay04	-9.037	0.06237	0.05321	-6.444	-2.593	0.081984	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st2	Assay05	-8.688	0.02875	0.02258	-6.319	-2.369	0.036557	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st2	Assay06	-8.886	0.03549	0.05267	-6.147	-2.739	0.063511	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st2	Assay16	-8.75	0.02431	0.03522	-6.118	-2.632	0.042795	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay09	-8.847	0.02804	0.04213	-6.365	-2.482	0.050608	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay10_Part 1	-8.78	0.02968	0.07506	-6.633	-2.147	0.080715	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay11	-8.798	0.03328	0.06891	-6.383	-2.415	0.076526	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay12_Part 1	-8.918	0.07468	0.04567	-6.325	-2.593	0.087538	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay13	-8.774	0.04195	0.02748	-6.287	-2.487	0.050149	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay14_Part 1	-8.671	0.03945	0.05062	-6.283	-2.388	0.064177	-2.54424	0.078816	-3.17184	-1.91665		A/A
Dietrich	st3	Assay15	-8.66	0.02707	0.02948	-6.042	-2.618	0.040023	-2.54424	0.078816	-3.17184	-1.91665		A/A

Laboratory	SubTask	TestID	logic50 E2	logic50_E2 stderr	logic50_NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Acceptability (E2/NE)
Dietrich	st3	Assay16	-8.75	0.02431	0.03522	-6.118	-2.632	0.042795	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st2	A	-8.888	0.01473	0.01686	-6.352	-2.536	0.022388	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st2	B	-8.89	0.01323	0.01922	-6.398	-2.492	0.023333	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st2	D	-9.014	0.01314	0.01577	-6.15	-2.864	0.020527	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st3	CODE A	-8.995	0.01276	0.01512	-6.123	-2.872	0.019785	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st3	CODE A1	-9.035	0.01174	0.04271	-6.271	-2.764	0.044294	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st3	CODE AB	-8.996	0.01464	0.03853	-6.348	-2.648	0.041218	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st3	CODE B	-9.138	0.0101	0.01136	-6.291	-2.847	0.015201	-2.54424	0.078816	-3.17184	-1.91665		A/A
Freyberger	st3	CODE B2	-9.023	0.01085	0.04848	-6.315	-2.708	0.049679	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st1	20090113_01	-8.829	0.01621	0.02279	-6.589	-2.24	0.027967	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st1	20090121_02	-8.761	0.01791	0.01261	-6.581	-2.18	0.021904	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st1	20090128_03	-8.742	0.01338	0.01673	-6.505	-2.237	0.021422	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st2	20090422_01	-8.718	0.0136	0.01345	-6.612	-2.106	0.019128	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st2	20090427_02	-8.771	0.01251	0.01732	-6.626	-2.145	0.021366	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st2	20090430_03	-8.826	0.01989	0.01187	-6.609	-2.217	0.023163	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st3	091021_01	-8.856	0.01735	0.01884	-6.754	-2.102	0.025612	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st3	091105_03	-8.726	0.009071	0.04192	-6.681	-2.045	0.04289	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st3	091109_04	-8.797	0.01769	0.01442	-6.73	-2.067	0.022823	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st3	091111_06	-8.875	0.02718	0.01805	-6.652	-2.223	0.032628	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st3	091116_08	-8.738	0.02654	0.01813	-6.709	-2.029	0.032141	-2.54424	0.078816	-3.17184	-1.91665		A/A
JapanCERI	st3	091119_11	-8.799	0.03015	0.02264	-6.689	-2.11	0.037704	-2.54424	0.078816	-3.17184	-1.91665		A/A
Lovelace	st12	Run06Oct09	-8.523	0.04317	0.02536	-6.018	-2.505	0.050068	-2.54424	0.078816	-3.17184	-1.91665		A/A
Lovelace	st12	Run09July10 EtOH_Buffer	-9.109	0.062	0.02408	-6.453	-2.656	0.066512	-2.54424	0.078816	-3.17184	-1.91665		A/A
Lovelace	st2	Run01May09EtO H	-9.44	0.04447	0.03664	-6.197	-3.243	0.05762	-2.54424	0.078816	-3.17184	-1.91665	Below	A/A
Lovelace	st2	Run24Feb09EtO H	-8.8	0.02247	0.04108	-6.381	-2.419	0.046824	-2.54424	0.078816	-3.17184	-1.91665		A/A
Lovelace	st3	Run19Jun09EtOH	-8.45	0.06339	0.02642	-6.351	-2.099	0.068675	-2.54424	0.078816	-3.17184	-1.91665		A/A
Lovelace	st3	Run30Jun09EtOH	-8.688	0.03335	0.03614	-6.403	-2.285	0.049176	-2.54424	0.078816	-3.17184	-1.91665		A/A

Laboratory	SubTask	TestID	logic50 E2	logic50_E2 stderr	logic50_NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Acceptability (E2/NE)
Missouri	st1	Run7003	-8.919	0.02462	0.01959	-6.359	-2.56	0.031463	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st1	Run7004	-8.869	0.04582	0.02716	-6.395	-2.474	0.053265	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st1	Run7005	-8.921	0.06016	0.01817	-6.469	-2.452	0.062844	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st1	Run7006	-8.855	0.03414	0.0409	-6.47	-2.385	0.053276	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st1	Run7007	-8.924	0.02204	0.0175	-6.398	-2.526	0.028143	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st2	Run9003	-9.107	0.03764	0.0148	-6.262	-2.845	0.040445	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st2	Run9004	-9.128	0.0299	0.02415	-6.253	-2.875	0.038435	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st2	Run9005	-9.137	0.0413	0.02683	-6.327	-2.81	0.04925	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st2	Run9007	-9.21	0.03338	0.03341	-6.449	-2.761	0.047228	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st3	Run8003	-9.031	0.01823	0.0255	-5.92	-3.111	0.031346	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st3	Run8004	-8.92	0.03523	0.03741	-6.272	-2.648	0.051387	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st3	Run8005	-9.14	0.01337	0.03308	-6.107	-3.033	0.03568	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st3	Run8101	-8.989	0.009115	0.02765	-6.393	-2.596	0.029114	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st3	Run8102	-9.02	0.007407	0.02862	-6.435	-2.585	0.029563	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st3	Run8107	-9.002	0.02272	0.0467	-6.441	-2.561	0.051934	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1101	-8.883	0.03715	0.05122	-6.32	-2.563	0.063274	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1102	-9	0.04209	0.04143	-6.284	-2.716	0.059059	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1103	-8.886	0.03433	0.03596	-6.308	-2.578	0.049716	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1104	-8.841	0.03122	0.03957	-6.205	-2.636	0.050403	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1106	-8.922	0.02482	0.0263	-6.296	-2.626	0.036162	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1107	-9.03	0.02645	0.01652	-6.287	-2.743	0.031185	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1108	-8.888	0.01916	0.01803	-6.633	-2.255	0.026309	-2.54424	0.078816	-3.17184	-1.91665		A/A
Missouri	st4	Run1109	-8.967	0.02483	0.04769	-6.681	-2.286	0.053767	-2.54424	0.078816	-3.17184	-1.91665		A/A

Table E-12 FWA Assay, Parameter Estimates for the Log₁₀RBA for the Unacceptable E2 or NE Runs and the Status of Tolerance Interval Screening

Laboratory	SubTask	TestID	logic50 E2	logic50_E2 stderr	logic50_NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Acceptability (E2/NE)
Lovelace	st1	Run19Dec08	-8.528	0.1236					-2.54424	0.078816	-3.17184	-1.91665		A/
Ceetox	st2	Run20090213 TEST4	-8.706	0.05195					-2.54424	0.078816	-3.17184	-1.91665		A/U
Ceetox	st2	Run20090213 TEST4_2	-8.62	0.0484					-2.54424	0.078816	-3.17184	-1.91665		A/U
Ceetox	st3	Run20090426	-8.778	0.05979	0.0293	-5.297	-3.481	0.066583	-2.54424	0.078816	-3.17184	-1.91665	Below	A/U
Dietrich	st3	Assay08	-8.696	0.02999	0.05292	-6.372	-2.324	0.060827	-2.54424	0.078816	-3.17184	-1.91665		A/U
Freyberger	st3	CODE A2	-8.865	0.04881	0.05011	-6.119	-2.746	0.069953	-2.54424	0.078816	-3.17184	-1.91665		A/U
Freyberger	st3	CODE B1	-8.967	0.01739	0.03447	-6.473	-2.494	0.038608	-2.54424	0.078816	-3.17184	-1.91665		A/U
Lovelace	st1	Run13Dec08	-8.86	0.06251	0.05831	-5.88	-2.98	0.085484	-2.54424	0.078816	-3.17184	-1.91665		A/U
Lovelace	st12	Run19Aug10EtOH_Buffer	-8.983	0.02904	0.02739	-6.469	-2.514	0.039919	-2.54424	0.078816	-3.17184	-1.91665		A/U
Lovelace	st2	Run16April09EtOH	-8.478	0.109	0.1625	-5.851	-2.627	0.195671	-2.54424	0.078816	-3.17184	-1.91665		A/U
Lovelace	st3	Run13Mar09EtOH	-8.475	0.1156	0.1212	-5.436	-3.039	0.16749	-2.54424	0.078816	-3.17184	-1.91665		A/U
Missouri	st3	Run8108	-8.898	0.02851	0.05383	-6.318	-2.58	0.060914	-2.54424	0.078816	-3.17184	-1.91665		A/U
Missouri	st4	Run1111	-8.954	0.04797	0.04276	-6.175	-2.779	0.064262	-2.54424	0.078816	-3.17184	-1.91665		A/U
Ceetox	st3	Run20090418 DMS	-8.809	0.04487	0.04224	-6.191	-2.618	0.061624	-2.54424	0.078816	-3.17184	-1.91665		DMSO(A)/DMSO(A)
Ceetox	st3	Run20090505 DMSO	-8.797	0.05392	0.04873	-6.313	-2.484	0.072677	-2.54424	0.078816	-3.17184	-1.91665		DMSO(A)/DMSO(A)
Ceetox	st3	Run20090514 DMSO	-8.951	0.0432	0.04157	-6.052	-2.899	0.059953	-2.54424	0.078816	-3.17184	-1.91665		DMSO(A)/DMSO(A)
Freyberger	st2	E	-8.993	0.01362	0.01489	-6.371	-2.622	0.02018	-2.54424	0.078816	-3.17184	-1.91665		DMSO(A)/DMSO(A)
Freyberger	st2	F	-9.082	0.01478	0.0244	-6.461	-2.621	0.028527	-2.54424	0.078816	-3.17184	-1.91665		DMSO(A)/DMSO(A)

Laboratory	SubTask	TestID	logic50 E2	logic50_ E2 stderr	logic50_ NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Accepta bility (E2/NE)
Freyberger	st2	G	-9.108	0.02289	0.0205	-6.454	-2.654	0.03072 8	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
JapanCERI	st3	091110_05	-8.839	0.03243	0.02957	-6.755	-2.084	0.04388 7	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
JapanCERI	st3	091112_07	-8.772	0.01638	0.02335	-6.777	-1.995	0.02852 2	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
JapanCERI	st3	091117_09	-8.833	0.01269	0.02669	-6.831	-2.002	0.02955 3	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
JapanCERI	st3	091118_10	-8.774	0.0208	0.01703	-6.781	-1.993	0.02688 2	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
Lovelace	st2	Run17Feb09DMSO	-8.933	0.0151	0.04585	-6.648	-2.285	0.04827 3	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
Missouri	st3	Run8201 DMSO	-9.064	0.01647	0.01402	-6.622	-2.442	0.02162 9	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
Missouri	st3	Run8203 DMSO	-9.15	0.0415	0.03167	-6.563	-2.587	0.05220 4	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(A) /DMSO(A)
Lovelace	st2	Run30Jan09DMSO	-6.546	1.27E+2 6					-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /
Lovelace	st2	Run14Feb09DMSO	-8.744	0.06142	0.05391	-6.399	-2.345	0.08172 3	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /DMSO(U)
Lovelace	st2	Run19Feb09DMSO	-8.798	0.03726	0.03812	-6.356	-2.442	0.05330 5	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /DMSO(U)
Lovelace	st3	Run03May09DMSO	-8.365	0.04838	0.08894	-5.936	-2.429	0.10124 7	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /DMSO(U)
Lovelace	st3	Run03May09DMSO_2	-8.437	0.09128	0.03699	-6.203	-2.234	0.09849	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /DMSO(U)
Lovelace	st3	Run03May09DMSO_3	-8.762	0.11	0.02655	-6.214	-2.548	0.11315 9	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /DMSO(U)
Missouri	st3	Run8202 DMSO	-9.142	0.0135	0.01459	-6.732	-2.41	0.01987 8	-2.54424	0.07881 6	-3.17184	-1.91665		DMSO(U) /DMSO(U)

Laboratory	SubTask	TestID	logic50 E2	logic50_ E2 stderr	logic50_ NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Accepta bility (E2/NE)
Ceetox	st1	Run20081124	-8.928	0.06703	0.06334	-6.335	-2.593	0.09222 2	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Dietrich	st2	Assay15	-8.66	0.02707	0.02948	-6.042	-2.618	0.04002 3	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
JapanCERI	st3	091026_02	-8.725	0.04831	0.02217	-6.829	-1.896	0.05315 4	-2.54424	0.07881 6	-3.17184	-1.91665	Above	U/A
Lovelace	st1	Run16Dec08	-9.152	0.09378	0.06078	-5.905	-3.247	0.11175 4	-2.54424	0.07881 6	-3.17184	-1.91665	Below	U/A
Lovelace	st12	Run09Oct09 EtOH	-9.138	0.157	0.02783	-6.089	-3.049	0.15944 8	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Lovelace	st12	Run14Oct09 EtOH	-8.678	0.04581	0.05287	-6.068	-2.61	0.06995 6	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Lovelace	st12	Run25Sep09 EtOH	-8.733	0.06057	0.06542	-6.298	-2.435	0.08915 4	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Lovelace	st2	Run21April09EtOH			0.04018	-6.239			-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Missouri	st1	Run3005	-9.414	0.051	0.03534	-6.369	-3.045	0.06204 8	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Missouri	st1	Run3006	-9.521	0.07213	0.02801	-6.64	-2.881	0.07737 8	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Missouri	st1	Run3008	-9.466	0.04016	0.02122	-6.576	-2.89	0.04542 2	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Missouri	st4	Run1110	-9.409	0.0495	0.047	-6.348	-3.061	0.06825 9	-2.54424	0.07881 6	-3.17184	-1.91665		U/A
Ceetox	st2	Run20090128 BAD	-9.016	0.03349	0.07706	-6.381	-2.635	0.08402 3	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Dietrich	st1	Assay01	-10.4	0.07984	0.09183	-5.242	-5.158	0.12168 5	-2.54424	0.07881 6	-3.17184	-1.91665	Below	U/U
Dietrich	st1	Assay02	-8.715	0.04353	0.0469	-5.522	-3.193	0.06398 8	-2.54424	0.07881 6	-3.17184	-1.91665	Below	U/U
Dietrich	st3	Assay07	-8.857	0.08584	0.04482	-6.209	-2.648	0.09683 7	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Freyberger	st2	C	-10.12	0.02022	0.02389	-6.506	-3.614	0.03129 8	-2.54424	0.07881 6	-3.17184	-1.91665	Below	U/U
JapanCERI	st3	091104_00	-8.618	0.1415	0.04493	-6.888	-1.73	0.14846 2	-2.54424	0.07881 6	-3.17184	-1.91665	Above	U/U
Lovelace	st1	Run03Dec08	-8.582	0.0988	0.1023	-5.541	-3.041	0.14222 1	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st1	Run09Dec08	-8.751	0.1358	0.09461	-5.696	-3.055	0.16550 7	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st1	Run27Jan09	-8.844	0.1039	0.07465	-6.461	-2.383	0.12793 7	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st12	Run09July10	-8.444	0.07937	0.03507	-5.929	-2.515	0.08677 3	-2.54424	0.07881 6	-3.17184	-1.91665		U/U

Laboratory	SubTask	TestID	logic50 E2	logic50_ E2 stderr	logic50_ NE stderr	logic50 NE	estimate	stderr	mean	Mean se	lower	upper	status	Acceptability (E2/NE)
Lovelace	st12	Run19Aug10EtOH	-7.744	0.08262	0.06973	-5.242	-2.502	0.10811 3	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run06Feb09EtOH	-8.18	0.1538	0.09802	-5.487	-2.693	0.18238	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run09Feb09EtOH	-8.375	0.07597	0.2213	-6.068	-2.307	0.23397 7	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run10April09EtOH	-7.252	0.2558					-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run12Feb09EtOH			0.1634	-7.555			-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run13May09EtOH	-8.133	0.04611	0.1527	-5.37	-2.763	0.15951	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run24April09EtOH	-8.166	0.07854	0.03763	-5.942	-2.224	0.08708 9	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run28April09EtOH	-8.198	0.124	0.1744	-6.225	-1.973	0.21398 9	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st2	Run28May09EtOH	-8.572	0.06106	0.06516	-6.282	-2.29	0.08929 8	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run10Mar09EtOH	-8.408	0.2119					-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run17Jun09EtOH	-8.242	0.03578	0.03165	-6.075	-2.167	0.04777	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run20Mar09EtOH							-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run23Jun09EtOH	-8.386	0.0739	0.04132	-5.959	-2.427	0.08466 7	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run24Mar09EtOH	-8.799	0.182	0.201	-6.205	-2.594	0.27115 5	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run25Jun09EtOH	-8.34	0.02718	0.03874	-5.982	-2.358	0.04732 4	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Lovelace	st3	Run31Mar09EtOH	-8.576	0.1412	0.114	-5.649	-2.927	0.18147 6	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Missouri	st3	Run8001	-9.092	0.03185	0.04257	-6.24	-2.852	0.05316 6	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Missouri	st3	Run8002	-9.126	0.01895	0.02237	-6.283	-2.843	0.02931 8	-2.54424	0.07881 6	-3.17184	-1.91665		U/U
Missouri	st4	Run1105	-8.777	0.02571	0.07362	-6.197	-2.58	0.07798	-2.54424	0.07881 6	-3.17184	-1.91665		U/U

Appendix F Histograms for Model Parameters for Acceptable and Unacceptable E2 and NE Runs

Appendix F Histograms for Model Parameters for Acceptable and Unacceptable E2 and NE Runs

CERI:

Figure F-1. CERI, E2, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

Figure F-2. CERI, E2, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

Figure F-3. CERI, E2, Histograms of Parameter Estimates for HillSlopt for Acceptable and Unacceptable Runs.

Figure F-4. CERI, E2, Histograms of Parameter Estimates for log10IC50 for Acceptable and Unacceptable Runs.

Figure F-5. CERI, NE, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

Figure F-6. CERI, NE, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

Figure F-7. CERI, NE, Histograms of Parameter Estimates for HillSlopt for Acceptable and Unacceptable Runs.

Figure F-8. CERI, NE, Histograms of Parameter Estimates for log10IC50 for Acceptable and Unacceptable Runs.

Figure F-9. CERI, E2, Histograms of Parameter Estimates for log(Syx) for Acceptable and Unacceptable Runs.

Figure F-10. CERI, NE, Histograms of Parameter Estimates for log(Syx) for Acceptable and Unacceptable Runs.

Figure F-11. CERI, LogRBA, Histograms for Acceptable and Unacceptable Runs.

Table F-1. CERI, E2, Acceptable Runs, Distribution of Parameter Estimates

Table F-2. CERI, E2, Unacceptable Runs, Distribution of Parameter Estimates

Table F-3. CERI, NE, Acceptable Runs, Distribution of Parameter Estimates

Table F-4. CERI, NE, Unacceptable Runs, Distribution of Parameter Estimates

Table F-5. CERI, LogRBA, Acceptable and Unacceptable Runs, Distribution of Parameter Estimates

FWA:

Figure F-12. FWA, E2, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

Figure F-13. FWA, E2, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

Figure F-14. FWA, E2, Histograms of Parameter Estimates for HillSlopt for Acceptable and Unacceptable Runs.

Figure F-15. FWA, E2, Histograms of Parameter Estimates for log10IC50 for Acceptable and Unacceptable Runs.

Figure F-16. FWA, NE, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

Figure F-17. FWA, NE, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

Figure F-18. FWA, NE, Histograms of Parameter Estimates for HillSlopt for Acceptable and Unacceptable Runs.

Figure F-19. FWA, NE, Histograms of Parameter Estimates for $\log_{10}IC50$ for Acceptable and Unacceptable Runs.

Figure F-20. FWA, E2, Histograms of Parameter Estimates for $\log(Syx)$ for Acceptable and Unacceptable Runs.

Figure F-21. FWA, NE, Histograms of Parameter Estimates for $\log(Syx)$ for Acceptable and Unacceptable Runs.

Figure F-22. FWA, LogRBA, Histograms for Acceptable and Unacceptable Runs.

Table F-6. FWA, E2, Acceptable Runs, Distribution of Parameter Estimates

Table F-7. FWA, E2, Unacceptable Runs, Distribution of Parameter Estimates

Table F-8. FWA, NE, Acceptable Runs, Distribution of Parameter Estimates

Table F-9. FWA, NE, Unacceptable Runs, Distribution of Parameter Estimates

Table F-10. FWA, LogRBA, Acceptable and Unacceptable Runs, Distribution of Parameter Estimates

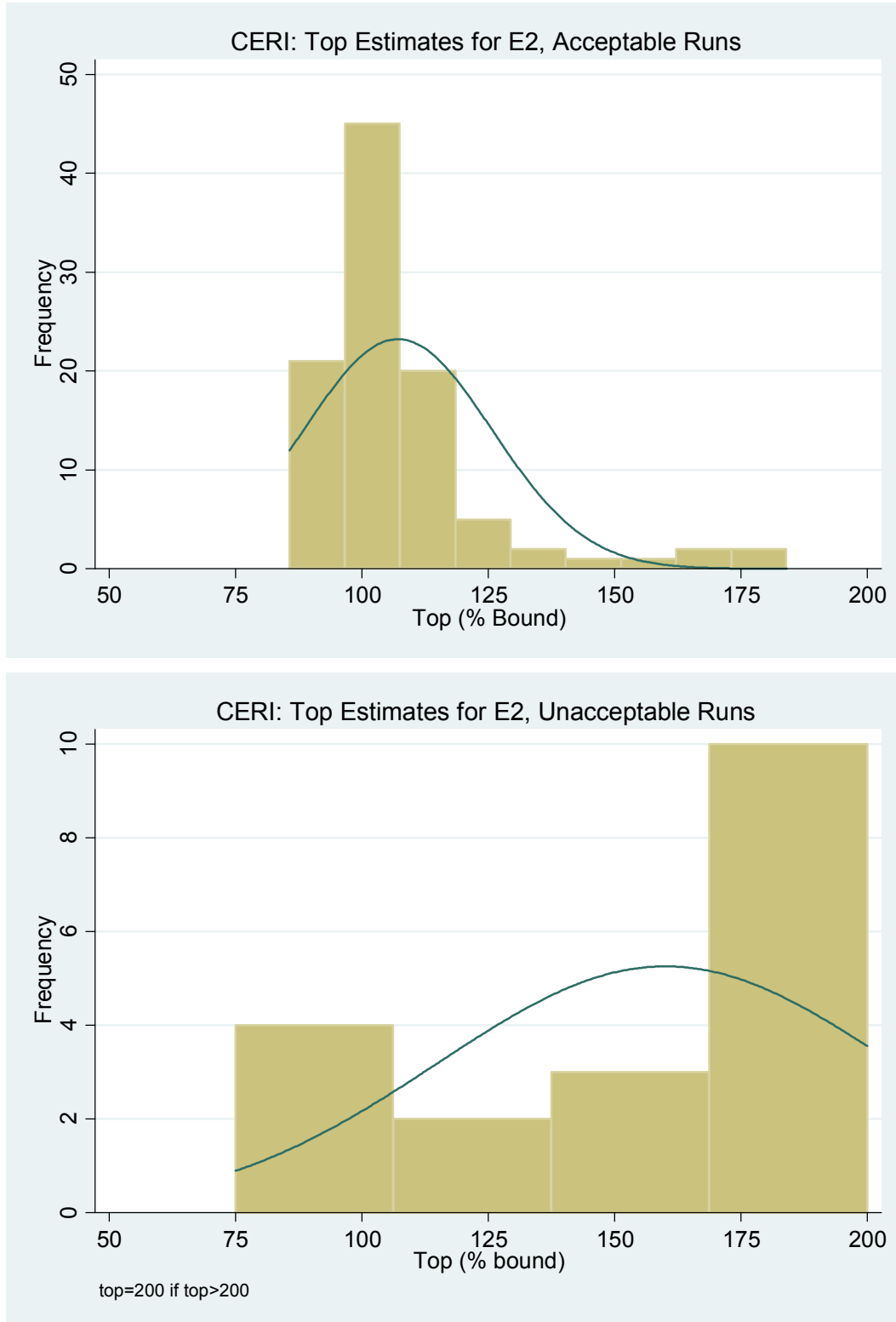


Figure F-1. CERl, E2, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

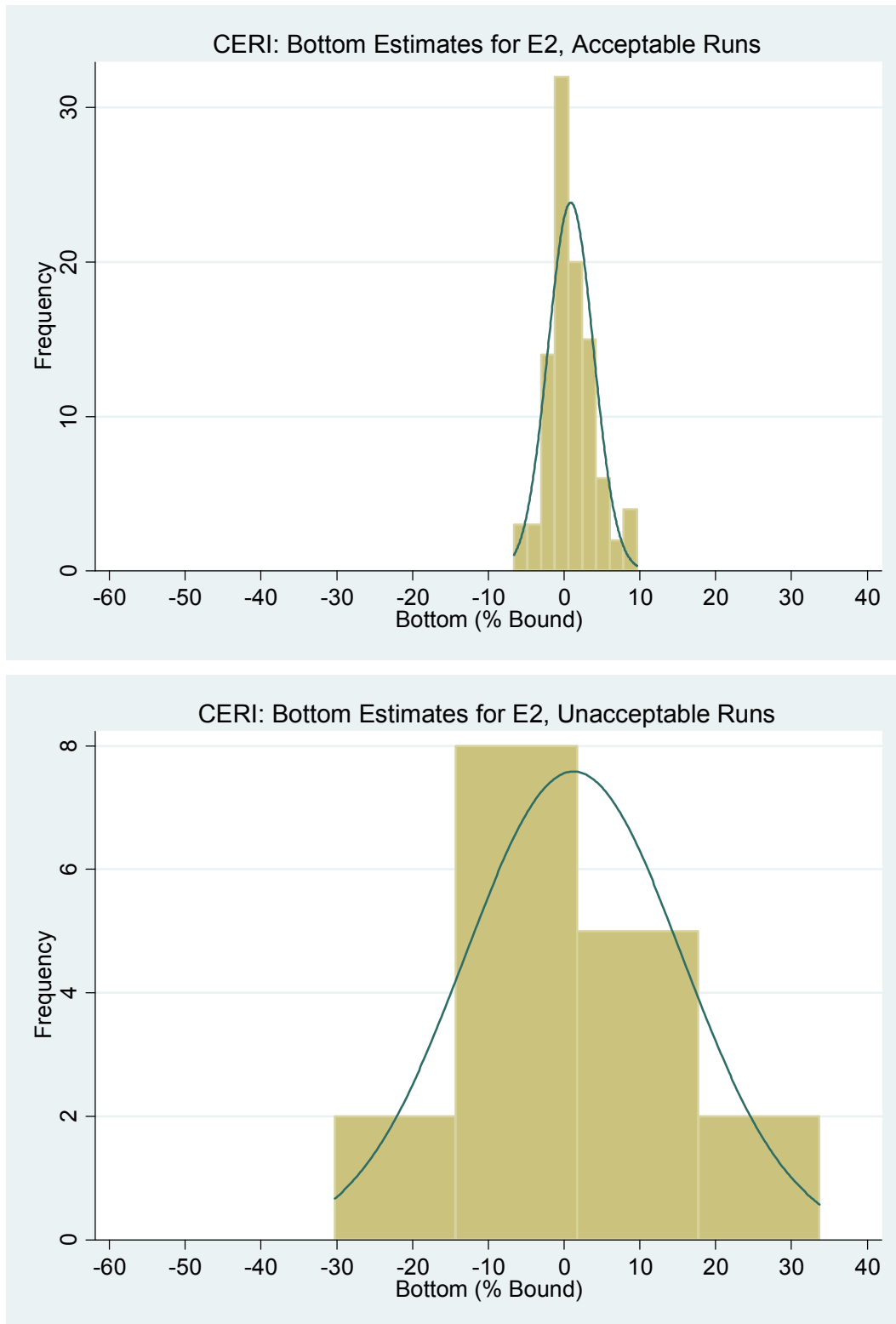


Figure F-2. CERI, E2, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

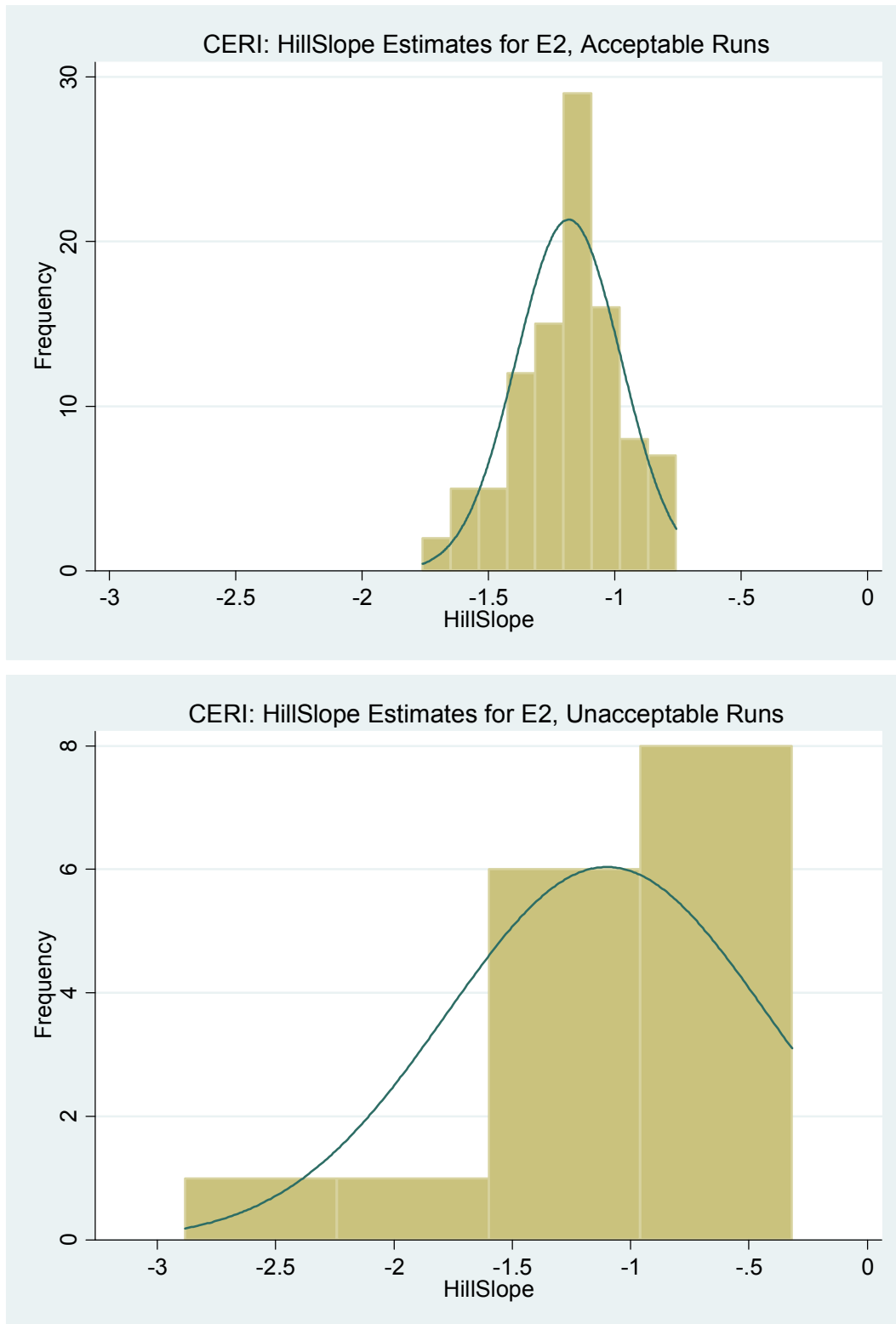


Figure F-3. CERI, E2, Histograms of Parameter Estimates for HillSlope for Acceptable and Unacceptable Runs.

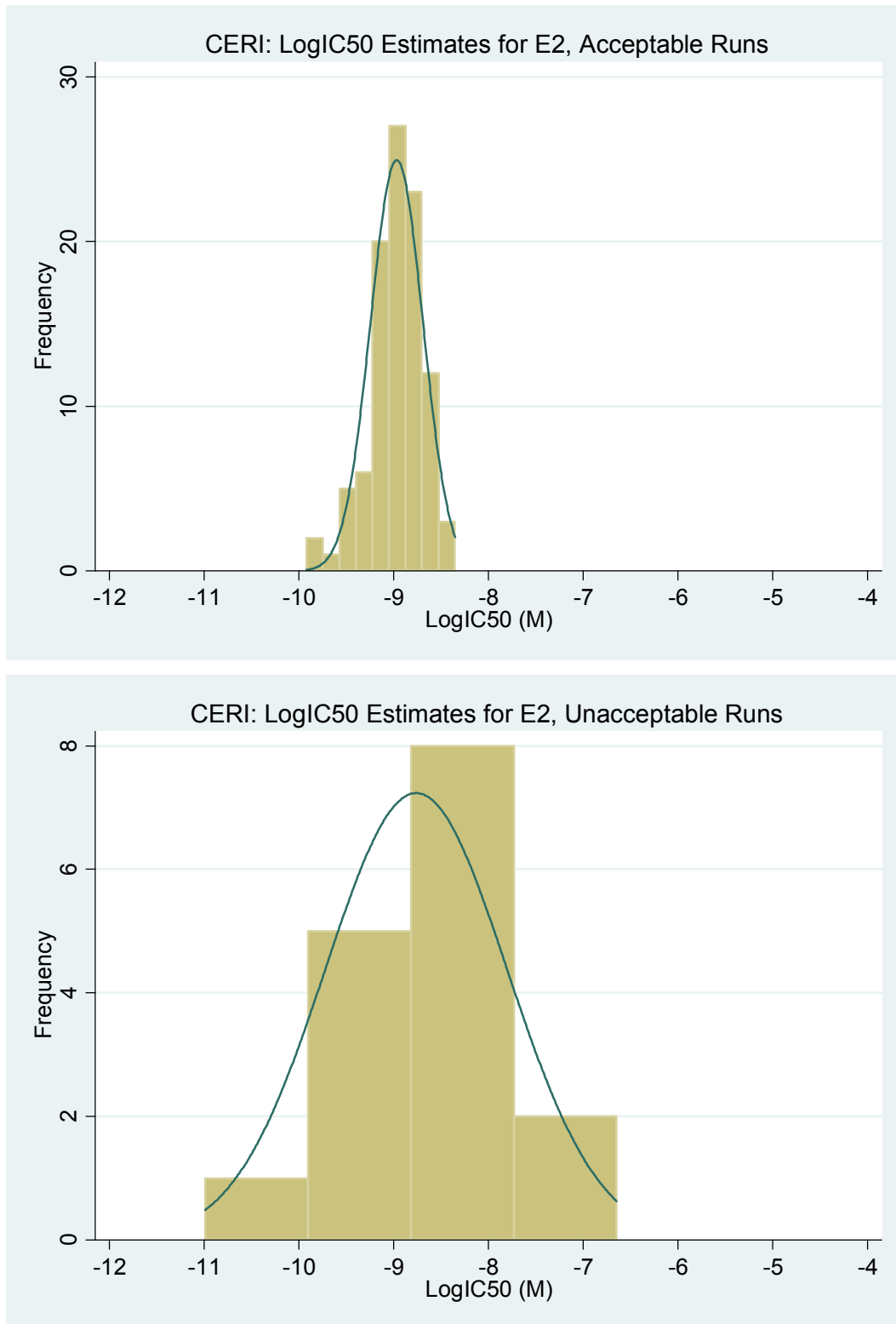


Figure F-4. CERI, E2, Histograms of Parameter Estimates for LogIC50 for Acceptable and Unacceptable Runs.

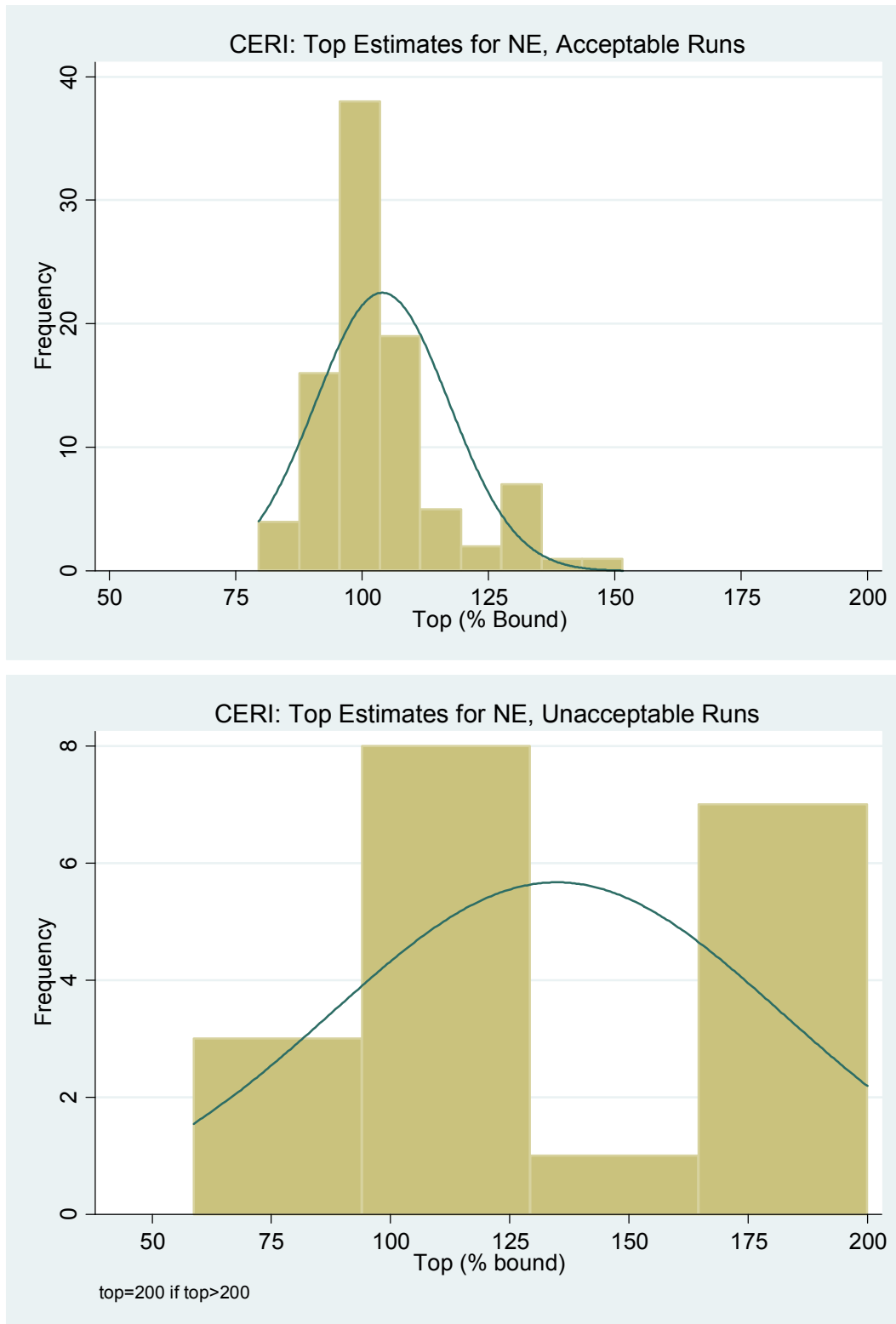


Figure F-5. CERl, NE, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

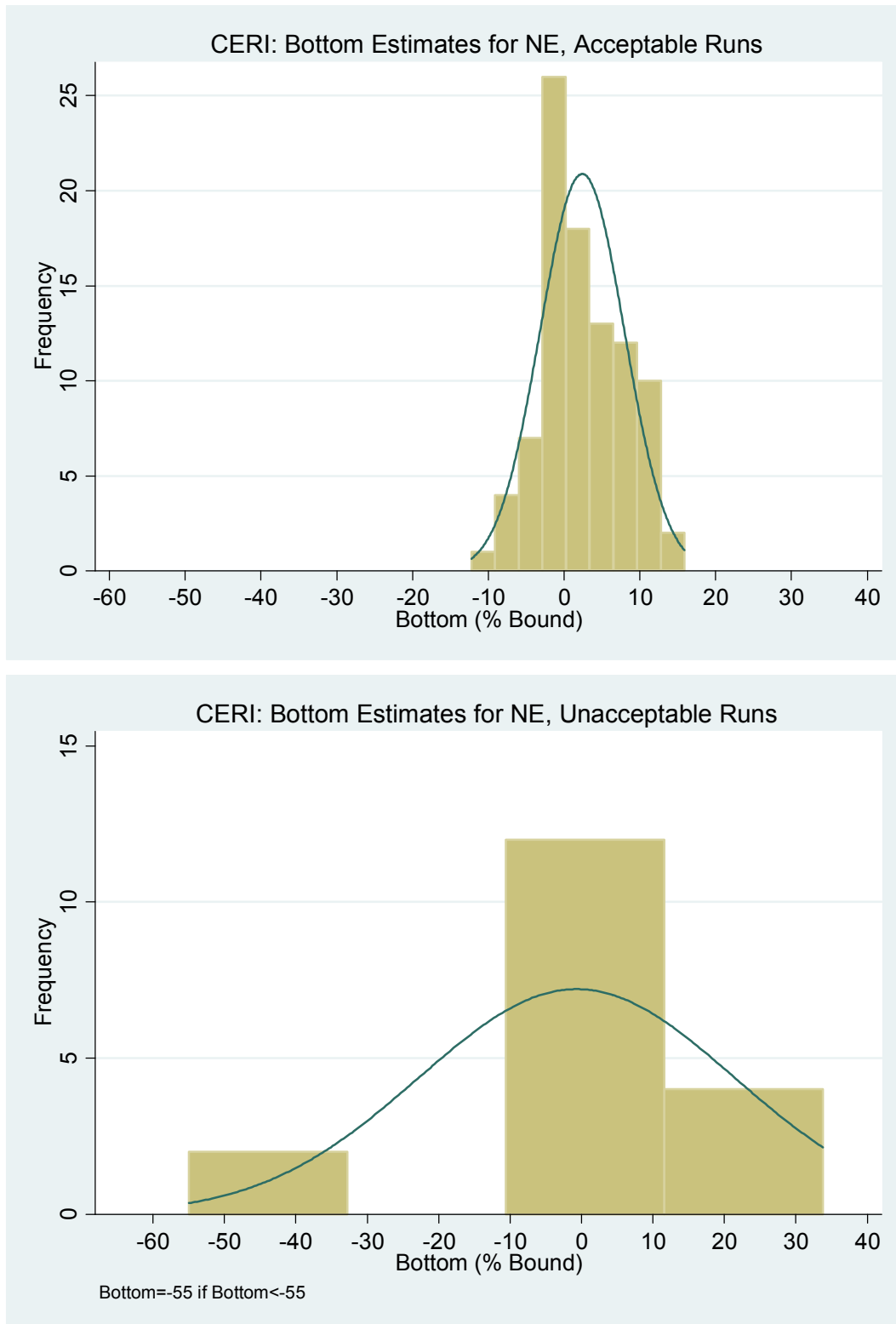


Figure F-6. CERl, NE, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

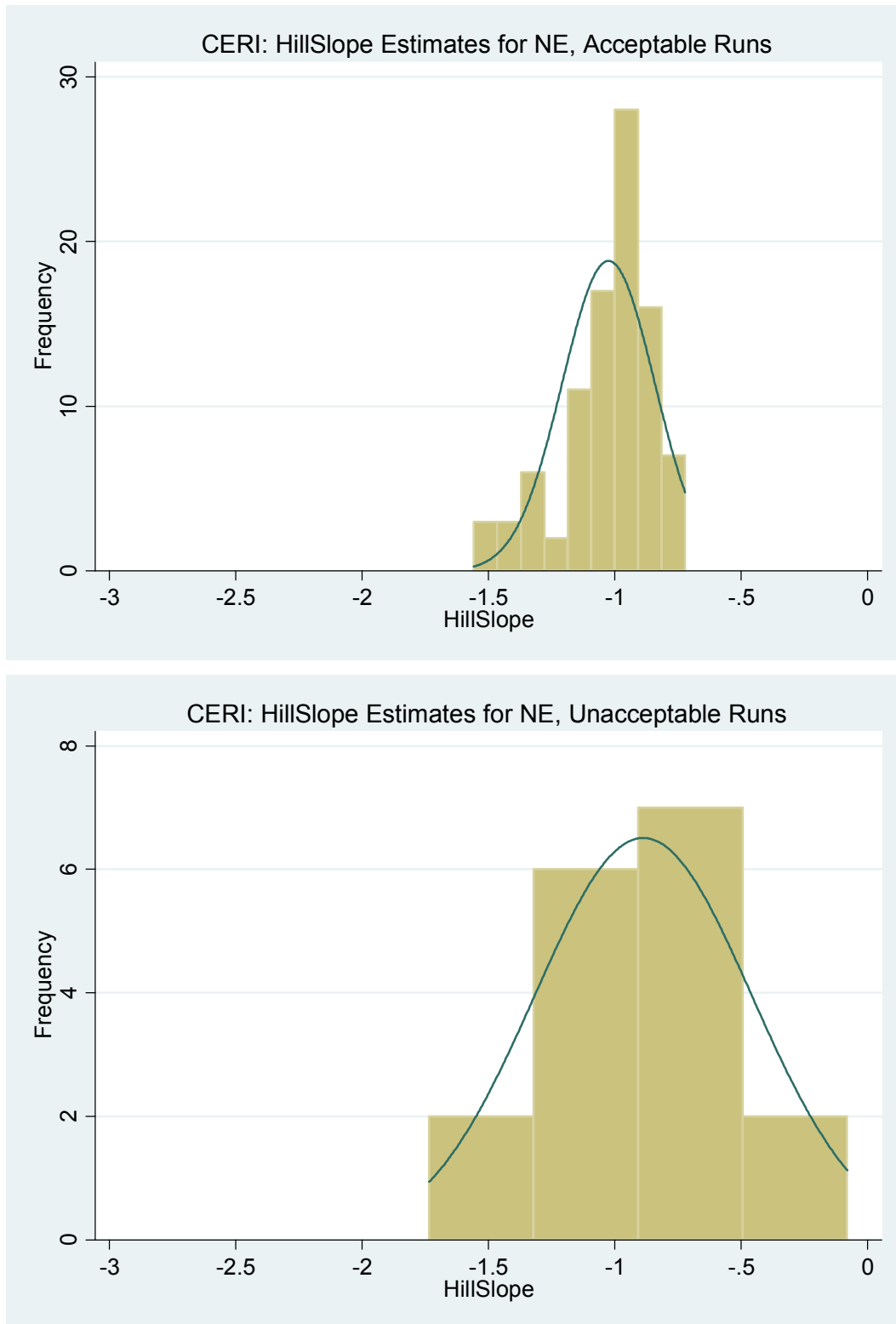


Figure F-7. CERI, NE, Histograms of Parameter Estimates for HillSlope for Acceptable and Unacceptable Runs.

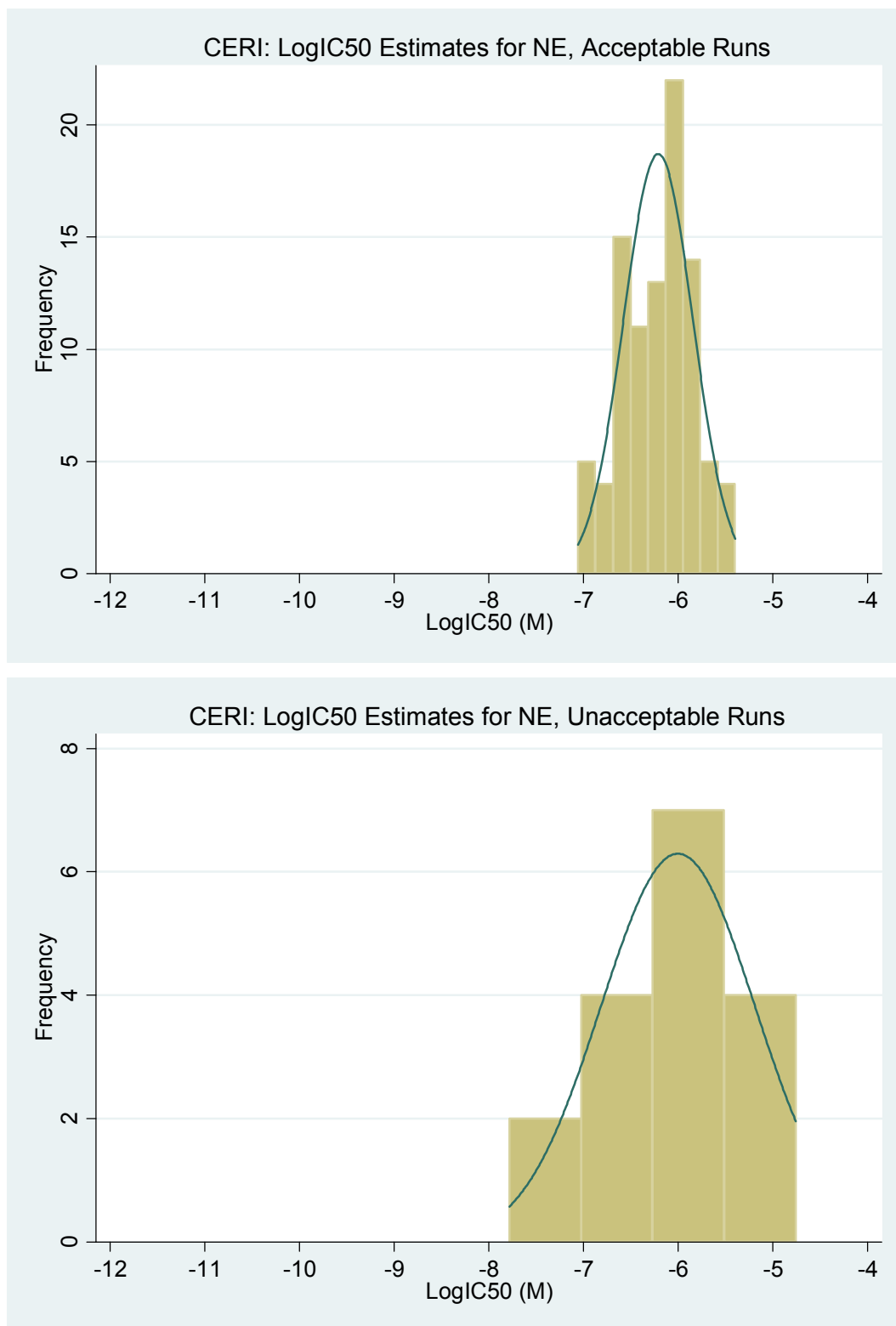


Figure F-8. CERI, NE, Histograms of Parameter Estimates for LogIC50 for Acceptable and Unacceptable Runs.

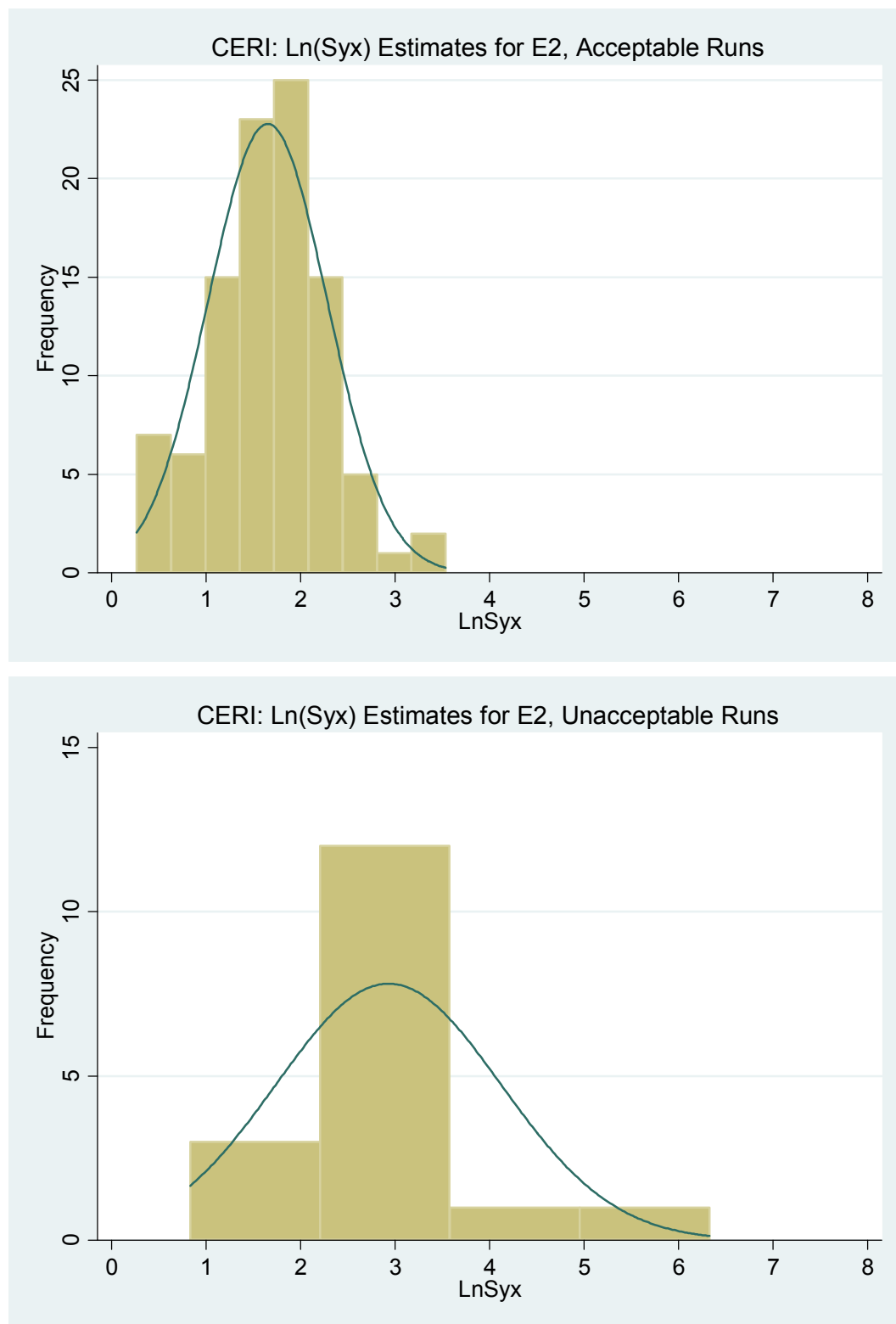


Figure F-9. CERl, E2, Histograms of Parameter Estimates for $\text{Ln}(\text{Syx})$ for Acceptable and Unacceptable Runs.

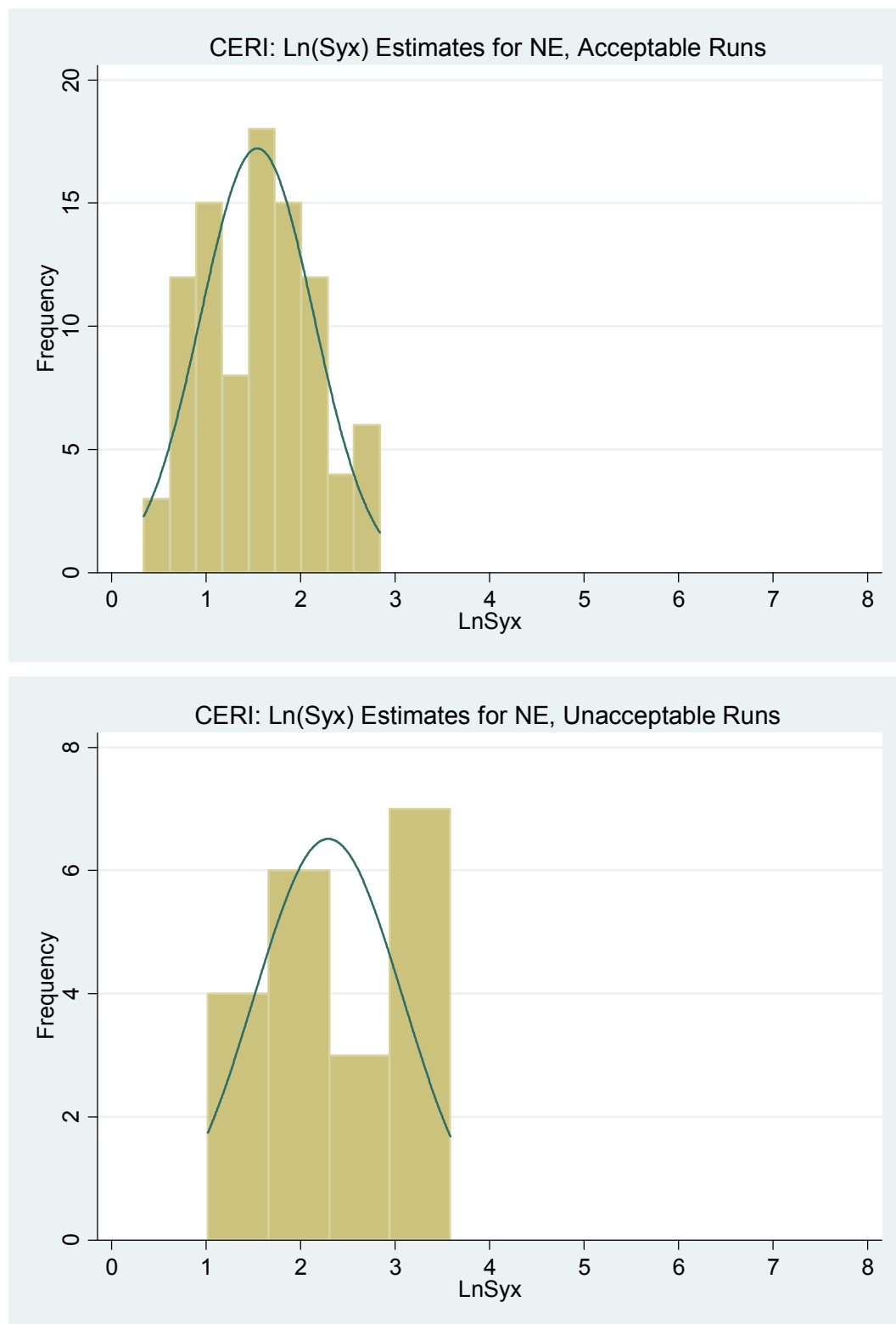


Figure F-10. CERl, NE, Histograms of Parameter Estimates for $\text{Ln}(\text{Syx})$ for Acceptable and Unacceptable Runs.

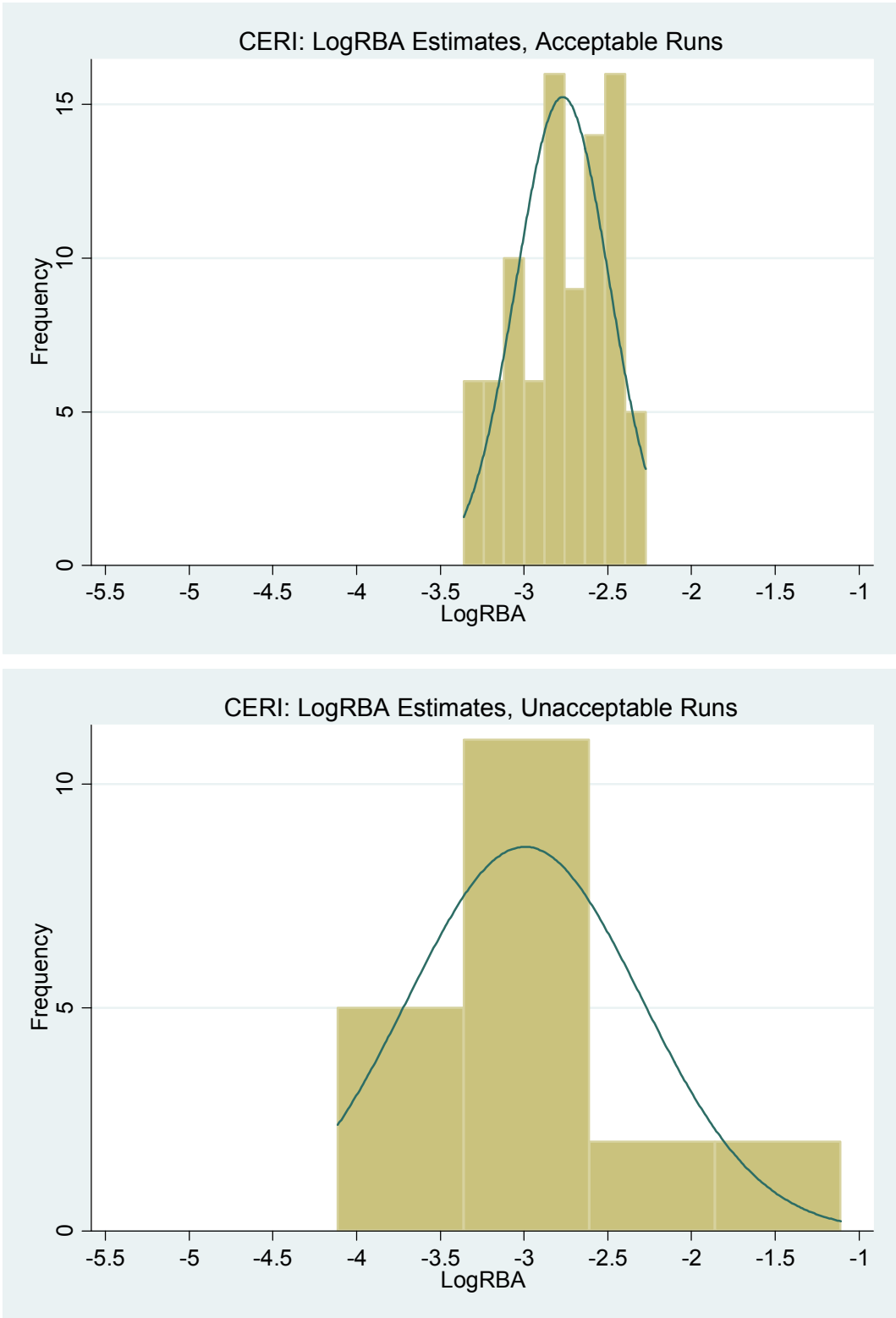


Figure F-11. CERl, Histograms of Parameter Estimates for logRBA, for Acceptable (for both E2 and NE) and Unacceptable (at least for E2 or NE) Runs.

Table F-1. CERl, E2, Acceptable Runs, Distribution of Parameter Estimates

Top

Percentiles		Smallest		
1%	85.7	85.7		
5%	86.58	86.1		
10%	89.96	86.14	Obs	99
25%	97.3	86.51	Sum of Wgt.	99
50%	102.1	Largest	Mean	107.1327
			Std. Dev.	18.60303
75%	111.2		Variance	346.0725
90%	126.5		Skewness	2.204549
95%	160.6		Kurtosis	8.355725
99%	184.1	184.1		

Bottom

Percentiles		Smallest		
1%	-6.615	-6.615		
5%	-3.529	-5.812		
10%	-2.216	-4.97	Obs	99
25%	-1.036	-3.933	Sum of Wgt.	99
50%	.4471	Largest	Mean	.8786004
			Std. Dev.	2.990909
75%	2.622		Variance	8.945538
90%	4.423		Skewness	.5153065
95%	7.568		Kurtosis	3.66576
99%	9.64	9.64		

HillSlope

Percentiles		Smallest		
1%	-1.76	-1.76		
5%	-1.582	-1.68		
10%	-1.459	-1.59	Obs	99
25%	-1.308	-1.582	Sum of Wgt.	99
50%	-1.158	Largest	Mean	-1.181697
			Std. Dev.	.206844
75%	-1.06		Variance	.0427844
90%	-.9202		Skewness	-.395513
95%	-.8412		Kurtosis	2.93636
99%	-.755	-.755		

LogIC50

	Percentiles	Smallest		
1%	-9.92	-9.92		
5%	-9.468	-9.766		
10%	-9.288	-9.623	Obs	99
25%	-9.101	-9.475	Sum of Wgt.	99
50%	-8.974		Mean	-8.966859
		Largest	Std. Dev.	.2764798
75%	-8.784	-8.53		
90%	-8.64	-8.413	Variance	.0764411
95%	-8.542	-8.391	Skewness	-.5784137
99%	-8.349	-8.349	Kurtosis	4.157708

lnSyx

	Percentiles	Smallest		
1%	.266203	.266203		
5%	.495915	.2799019		
10%	.7705711	.2866816	Obs	99
25%	1.254761	.4768551	Sum of Wgt.	99
50%	1.650004		Mean	1.651742
		Largest	Std. Dev.	.6307445
75%	2.050399	2.673459		
90%	2.374906	2.918851	Variance	.3978387
95%	2.51689	3.397524	Skewness	.0534373
99%	3.538057	3.538057	Kurtosis	3.426755

Table F-2. CERI, E2, Unacceptable Runs, Distribution of Parameter Estimates**Top**

	Percentiles	Smallest		
1%	75.05	75.05		
5%	75.05	88.52		
10%	88.52	104.5	Obs	16
25%	108.9	105.6	Sum of Wgt.	16
50%	158.6		Mean	612.0606
		Largest	Std. Dev.	1710.474
75%	262.45	279.6		
90%	465.5	304.2	Variance	2925723
95%	7015	465.5	Skewness	3.593204
99%	7015	7015	Kurtosis	13.96863

Bottom

	Percentiles	Smallest		
1%	-30.28	-30.28		
5%	-30.28	-25.48		
10%	-25.48	-3.105	Obs	17
25%	-.5065	-1.478	Sum of Wgt.	17
50%	.9289		Mean	1.254282
		Largest	Std. Dev.	14.30931
75%	4.76	7.151		
90%	20.38	9.212	Variance	204.7563
95%	33.73	20.38	Skewness	-.1886362
99%	33.73	33.73	Kurtosis	4.358367

HillSlope

	Percentiles	Smallest		
1%	-2.882	-2.882		
5%	-2.882	-2.2		
10%	-2.2	-1.596	Obs	16
25%	-1.407	-1.459	Sum of Wgt.	16
50%	-.94795		Mean	-1.099856
		Largest	Std. Dev.	.6776949
75%	-.6064	-.6061		
90%	-.4825	-.5458	Variance	.4592703
95%	-.3174	-.4825	Skewness	-1.319462
99%	-.3174	-.3174	Kurtosis	4.179721

LogIC50

Percentiles		Smallest		
1%	-10.99	-10.99		
5%	-10.99	-9.548		
10%	-9.548	-9.432	Obs	16
25%	-9.43	-9.431	Sum of Wgt.	16
50%	-8.6645	Largest	Mean	-8.76125
			Std. Dev.	.9583842
75%	-8.4785		Variance	.9185003
90%	-7.465		Skewness	-.0354154
95%	-6.645		Kurtosis	4.109474
99%	-6.645	-6.645		

lnSyx

Percentiles		Smallest		
1%	.8333438	.8333438		
5%	.8333438	1.548626		
10%	1.548626	2.171679	Obs	17
25%	2.442347	2.28808	Sum of Wgt.	17
50%	2.702703	Largest	Mean	2.930618
			Std. Dev.	1.192956
75%	3.318178		Variance	1.423144
90%	4.49032		Skewness	1.152824
95%	6.326686		Kurtosis	5.33499
99%	6.326686	6.326686		

Table F-3. CERI, NE, Acceptable Runs, Distribution of Parameter Estimates**Top**

	Percentiles	Smallest		
1%	79.57	79.57		
5%	88.51	83.63		
10%	91.46	83.85	Obs	93
25%	96.28	87.49	Sum of Wgt.	93
50%	100.5		Mean	104.0275
		Largest	Std. Dev.	13.19021
75%	107.5	134.5		
90%	127.2	135.5	Variance	173.9818
95%	134.3	139.6	Skewness	1.352097
99%	151.6	151.6	Kurtosis	4.844334

Bottom

	Percentiles	Smallest		
1%	-12.24	-12.24		
5%	-6.481	-8.031		
10%	-3.781	-7.09	Obs	93
25%	-1.52	-7.019	Sum of Wgt.	93
50%	1.201		Mean	2.396243
		Largest	Std. Dev.	5.551478
75%	6.769	12.4		
90%	10.18	12.5	Variance	30.8189
95%	11.4	14.38	Skewness	.1974408
99%	15.88	15.88	Kurtosis	2.622513

HillSlope

	Percentiles	Smallest		
1%	-1.557	-1.557		
5%	-1.4	-1.534		
10%	-1.309	-1.52	Obs	93
25%	-1.103	-1.407	Sum of Wgt.	93
50%	-.9847		Mean	-1.024206
		Largest	Std. Dev.	.1831144
75%	-.9126	-.7327		
90%	-.8333	-.7261	Variance	.0335309
95%	-.7609	-.7215	Skewness	-.9528553
99%	-.721	-.721	Kurtosis	3.732146

LogIC50

Percentiles		Smallest		
1%	-7.054	-7.054		
5%	-6.873	-6.939		
10%	-6.675	-6.905	Obs	93
25%	-6.546	-6.88	Sum of Wgt.	93
50%	-6.158	Largest	Mean	-6.208591
			Std. Dev.	.3660887
75%	-5.952		Variance	.1340209
90%	-5.794		Skewness	-.1944387
95%	-5.621		Kurtosis	2.344444
99%	-5.393	-5.393		

lnSyx

Percentiles		Smallest		
1%	.3414598	.3414598		
5%	.6611404	.4510756		
10%	.7584667	.5544596	Obs	93
25%	1.004668	.658038	Sum of Wgt.	93
50%	1.606634	Largest	Mean	1.541855
			Std. Dev.	.5983491
75%	1.955294		Variance	.3580216
90%	2.362739		Skewness	.1279022
95%	2.590017		Kurtosis	2.227125
99%	2.840831	2.840831		

Table F-4. CERI, NE, Unacceptable Runs, Distribution of Parameter Estimates**Top**

	Percentiles	Smallest		
1%	58.7	58.7		
5%	58.7	69.01		
10%	69.01	92.34	Obs	19
25%	104.7	101.2	Sum of Wgt.	19
50%	111.8		Mean	142.6184
		Largest	Std. Dev.	59.74157
75%	191.5	220.7		
90%	237.7	234.3	Variance	3569.055
95%	254.7	237.7	Skewness	.5892499
99%	254.7	254.7	Kurtosis	2.078439

Bottom

	Percentiles	Smallest		
1%	-1.49e+07	-1.49e+07		
5%	-1.49e+07	-6366		
10%	-6366	-4.838	Obs	18
25%	-3.313	-4.775	Sum of Wgt.	18
50%	2.0645		Mean	-826459.3
		Largest	Std. Dev.	3504806
75%	7.286	15.05		
90%	20.13	18.31	Variance	1.23e+13
95%	33.78	20.13	Skewness	-3.880569
99%	33.78	33.78	Kurtosis	16.05882

HillSlope

	Percentiles	Smallest		
1%	-1.734	-1.734		
5%	-1.734	-1.627		
10%	-1.627	-1.192	Obs	17
25%	-1.146	-1.19	Sum of Wgt.	17
50%	-.8879		Mean	-.8866247
		Largest	Std. Dev.	.4310905
75%	-.6491	-.6481		
90%	-.2534	-.544	Variance	.185839
95%	-.07932	-.2534	Skewness	-.1798373
99%	-.07932	-.07932	Kurtosis	2.78952

LogIC50

Percentiles		Smallest		
1%	-7.78	-7.78		
5%	-7.78	-7.344		
10%	-7.344	-6.878	Obs	17
25%	-6.588	-6.707	Sum of Wgt.	17
			Mean	-5.999882
50%	-5.658		Std. Dev.	.8147909
			Largest	
75%	-5.517	-5.458		
90%	-5.179	-5.28	Variance	.6638842
95%	-4.755	-5.179	Skewness	-.7087595
99%	-4.755	-4.755	Kurtosis	2.657425

lnSyx

Percentiles		Smallest		
1%	1.018125	1.018125		
5%	1.047246	1.076367		
10%	1.12966	1.182953	Obs	20
25%	1.802212	1.299919	Sum of Wgt.	20
			Mean	2.29438
50%	2.30538		Std. Dev.	.7864651
			Largest	
75%	3.021085	3.093766		
90%	3.220388	3.1394	Variance	.6185274
95%	3.443835	3.301377	Skewness	-.1367602
99%	3.586293	3.586293	Kurtosis	1.884346

Table F-5. CERI, LogRBA, Acceptable and Unacceptable Runs, Distribution of Parameter Estimates**Acceptable**

Percentiles		Smallest		
1%	-3.361	-3.361		
5%	-3.256	-3.299		
10%	-3.155	-3.286	Obs	88
25%	-2.987	-3.276	Sum of Wgt.	88
			Mean	-2.768432
50%	-2.7695		Std. Dev.	.2781948
			Largest	
75%	-2.5235	-2.372		
90%	-2.431	-2.365	Variance	.0773924
95%	-2.388	-2.357	Skewness	-.2767719
99%	-2.274	-2.274	Kurtosis	1.981682

Unacceptable

Percentiles		Smallest		
1%	-4.112	-4.112		
5%	-3.981	-3.85		
10%	-3.835	-3.82	Obs	20
25%	-3.381	-3.542	Sum of Wgt.	20
			Mean	-2.9948
50%	-3.056		Std. Dev.	.6971441
			Largest	
75%	-2.7415	-2.556		
90%	-2.1	-2.503	Variance	.4860099
95%	-1.402	-1.697	Skewness	.9978033
99%	-1.107	-1.107	Kurtosis	4.301546

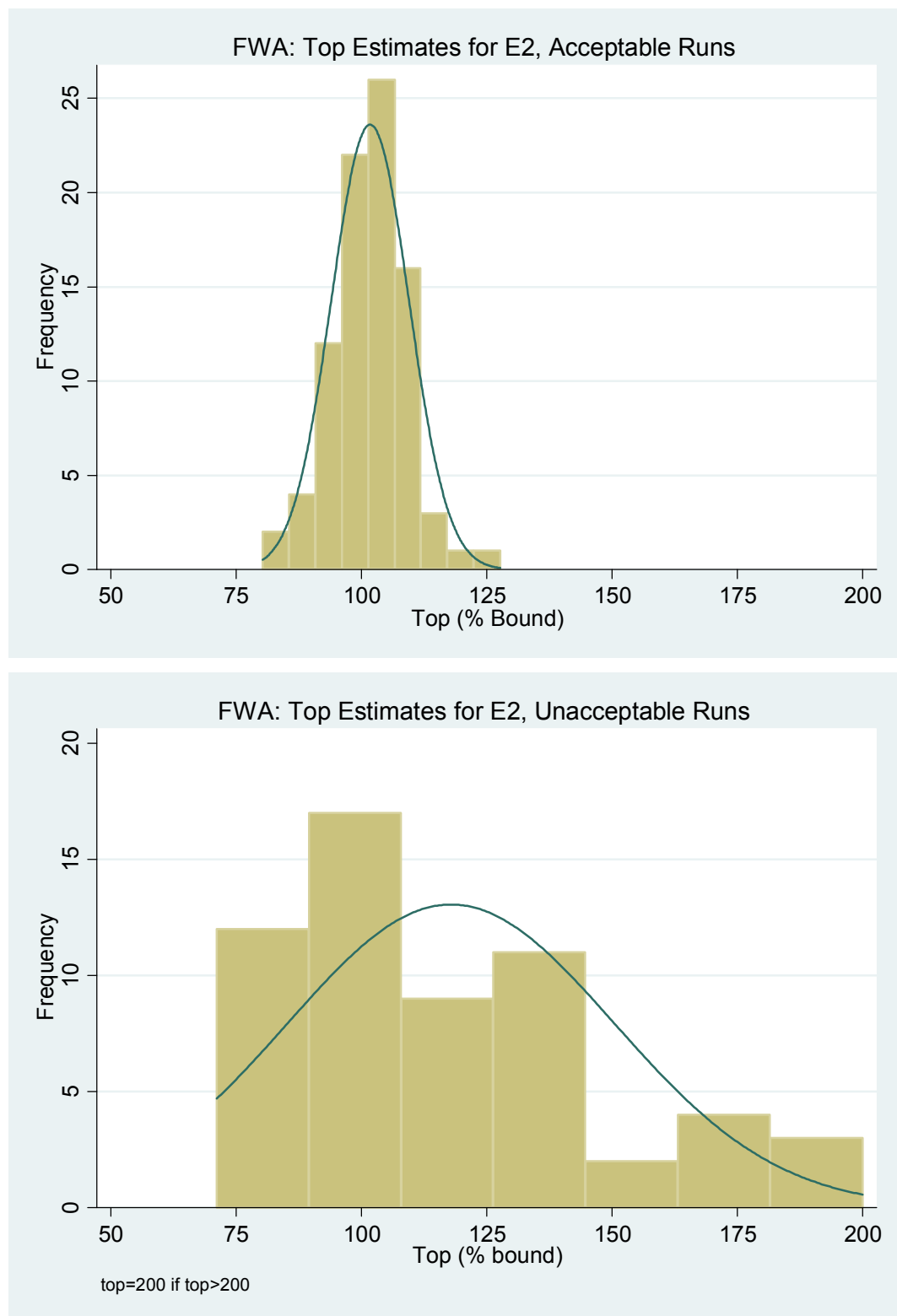


Figure F-12. FWA, E2, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

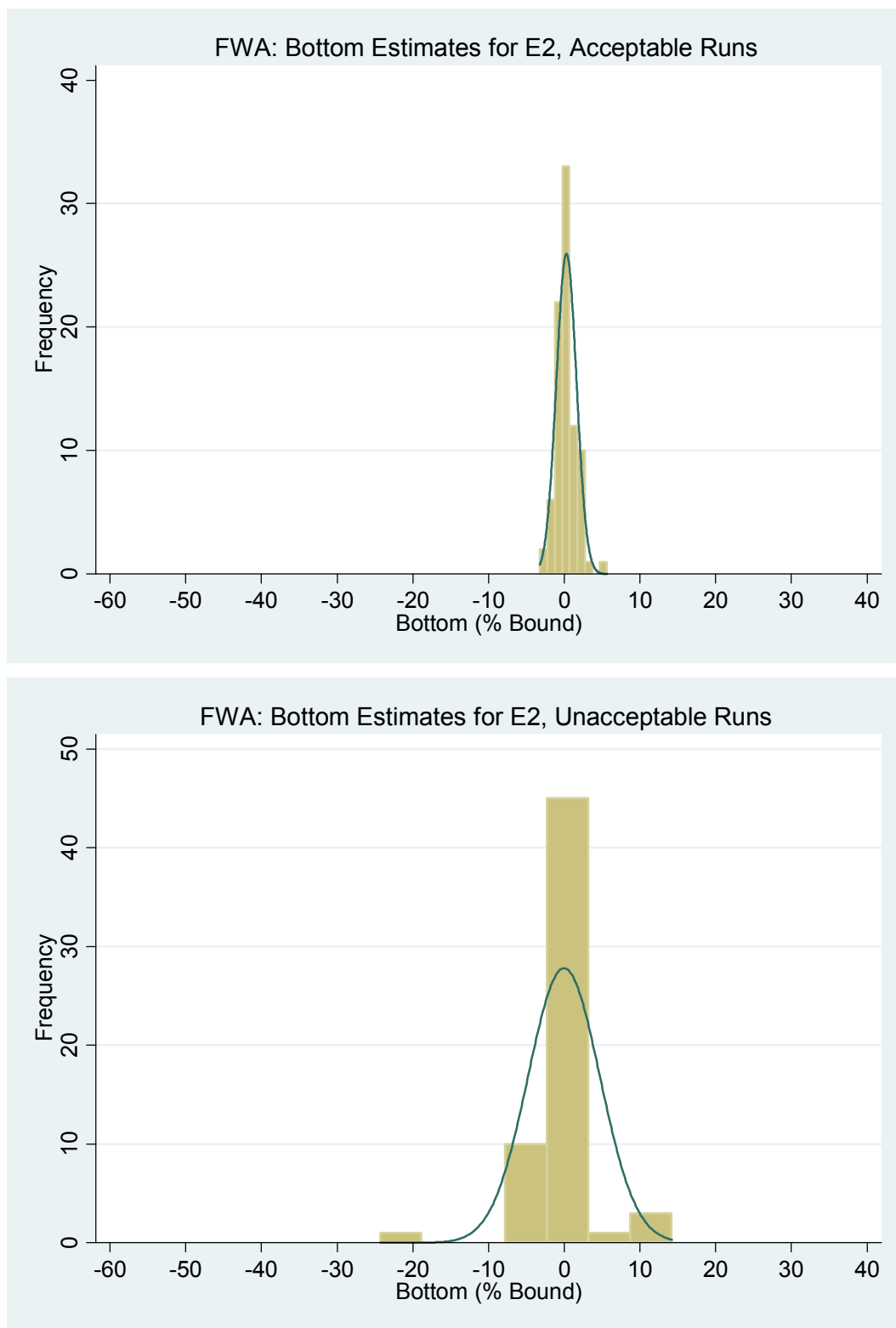


Figure F-13. FWA, E2, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

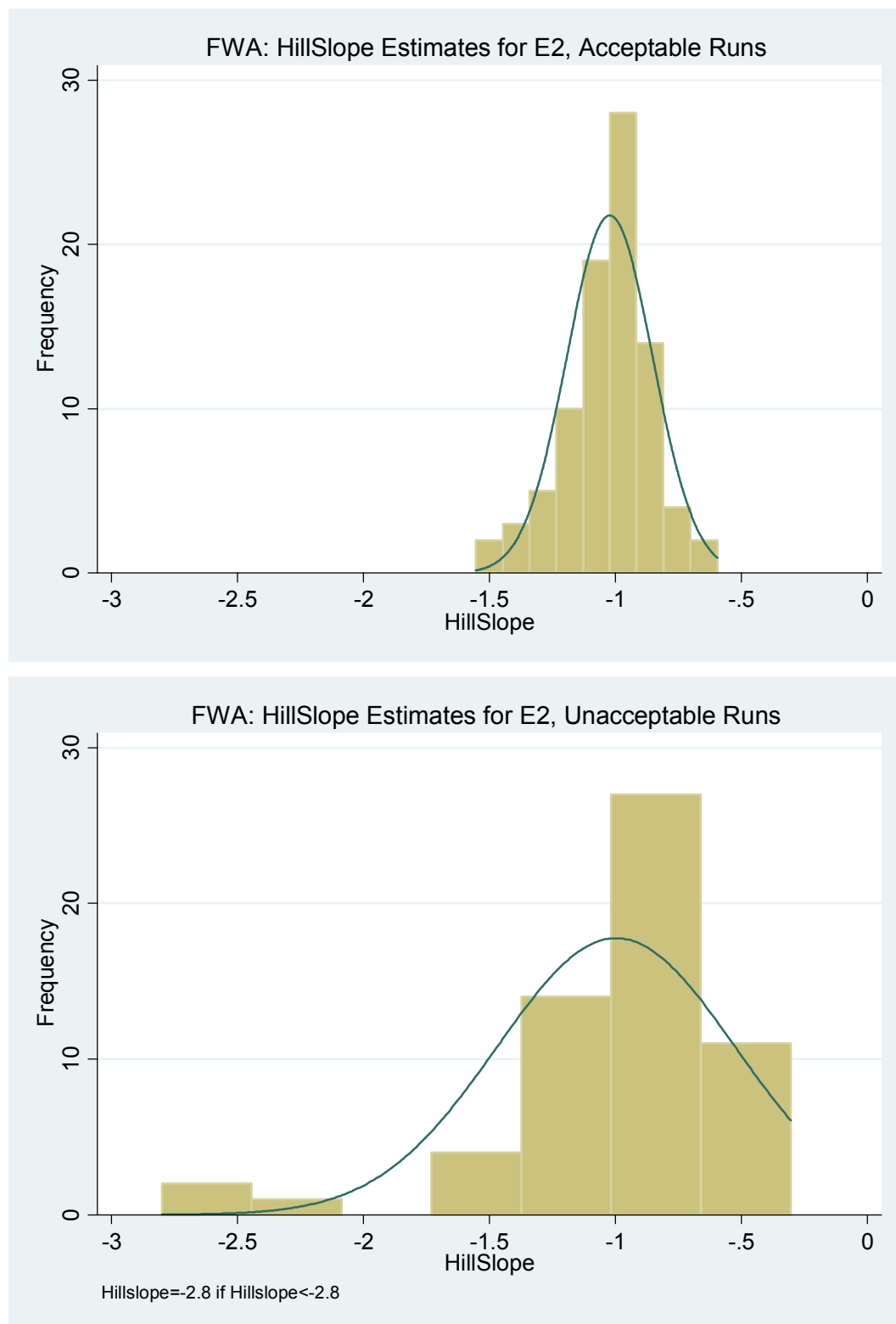


Figure F-14. FWA, E2, Histograms of Parameter Estimates for HillSlope for Acceptable and Unacceptable Runs.

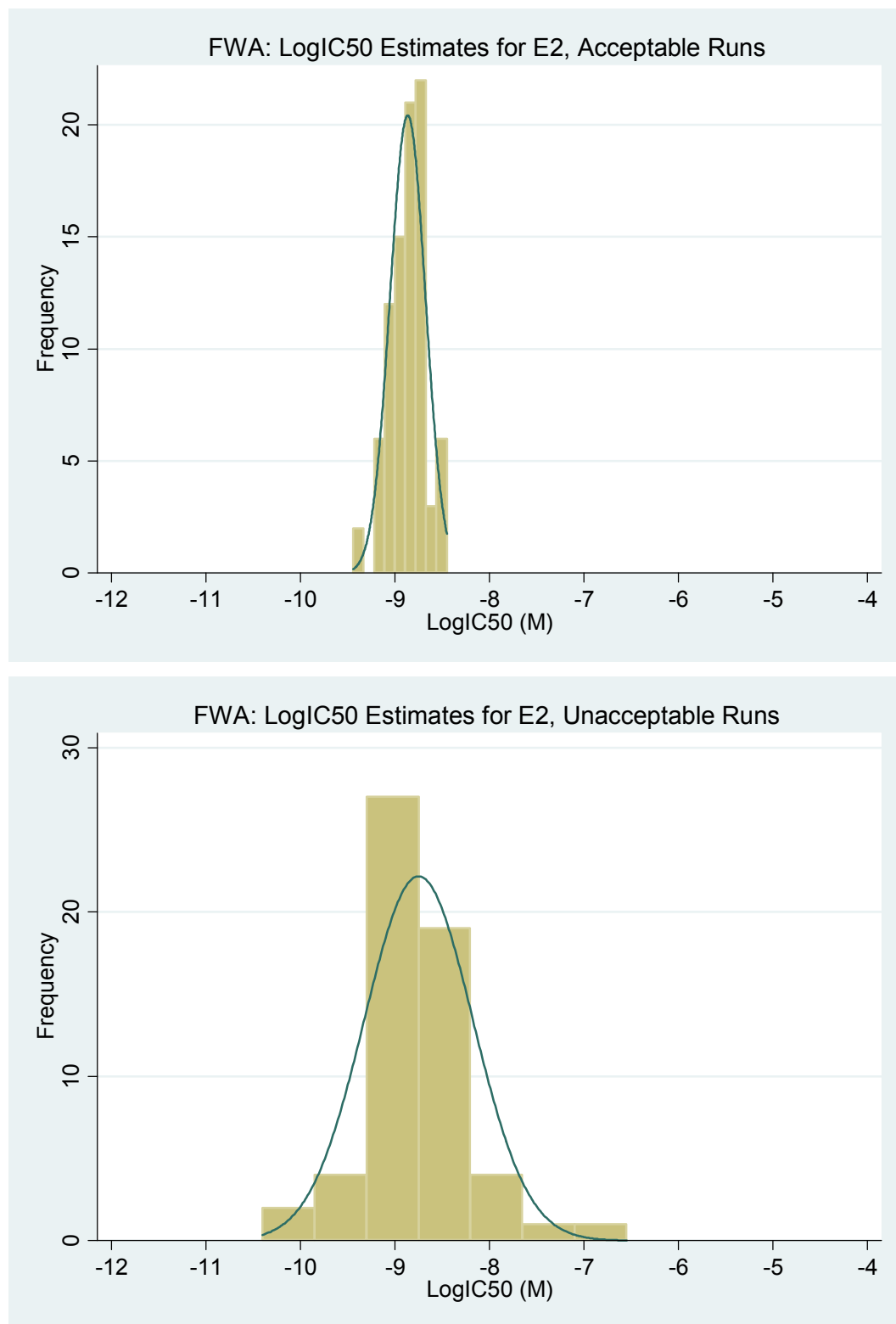


Figure F-15. FWA, E2, Histograms of Parameter Estimates for LogIC50 for Acceptable and Unacceptable Runs.

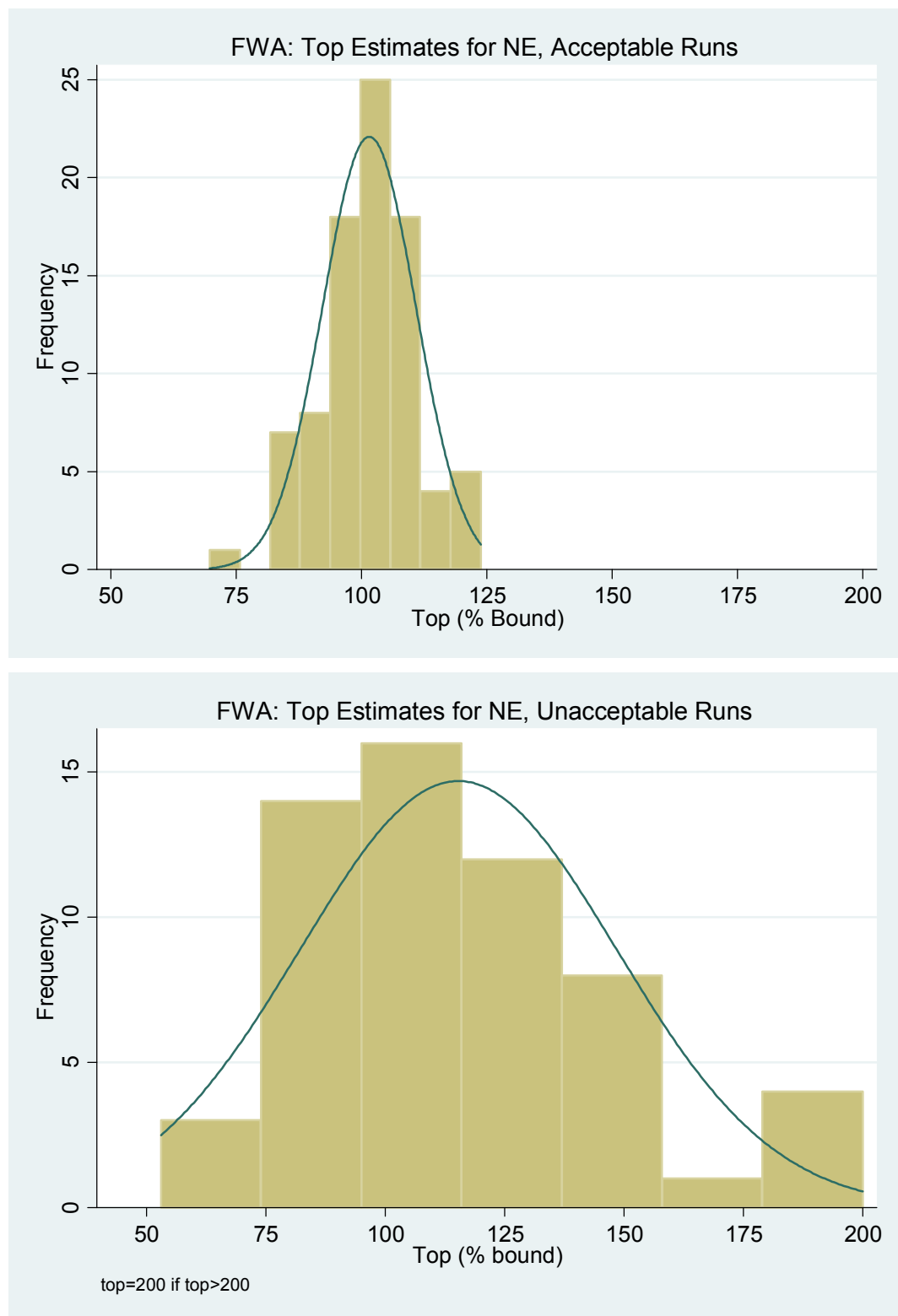


Figure F-16. FWA, NE, Histograms of Parameter Estimates for Top for Acceptable and Unacceptable Runs.

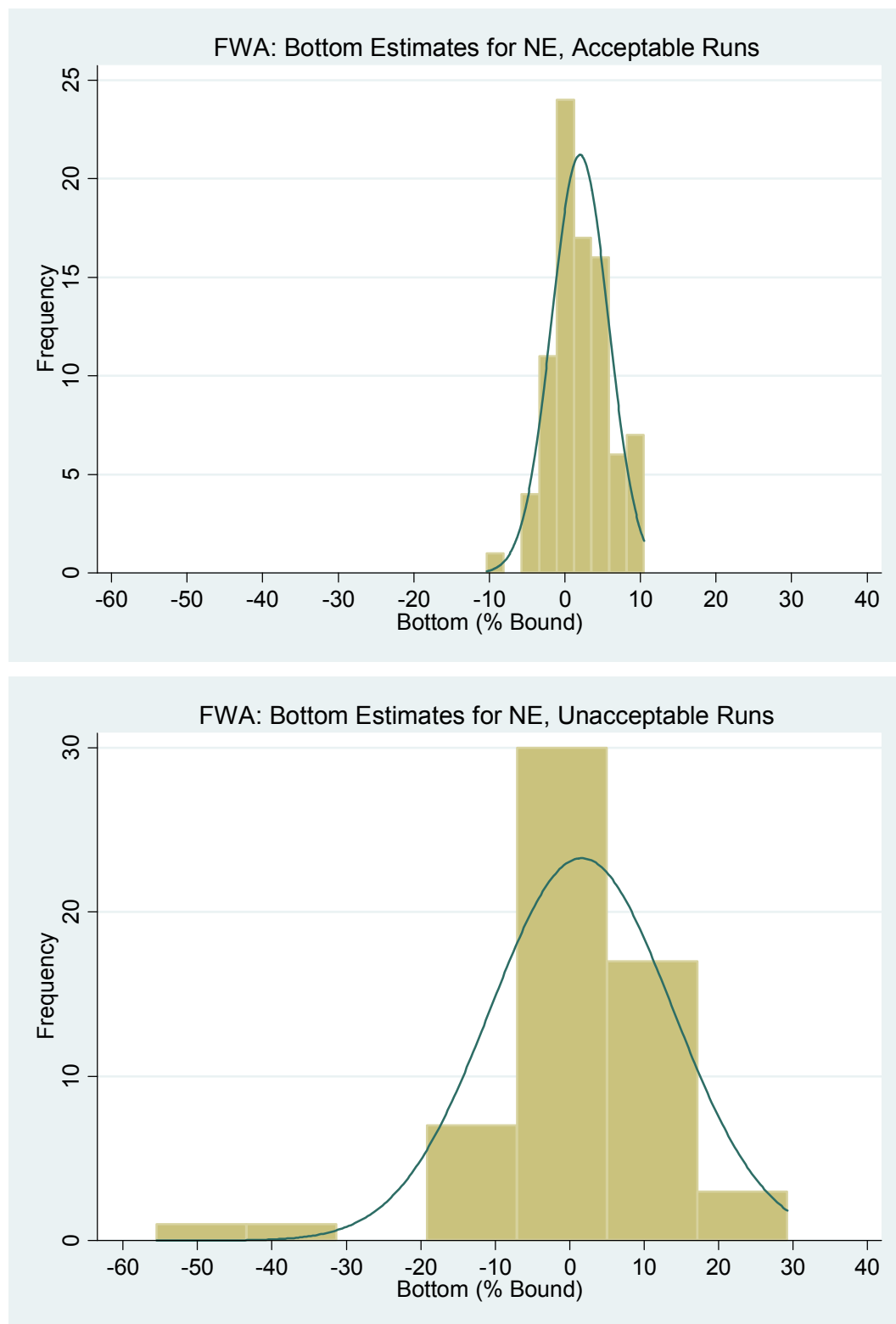


Figure F-17. FWA, NE, Histograms of Parameter Estimates for Bottom for Acceptable and Unacceptable Runs.

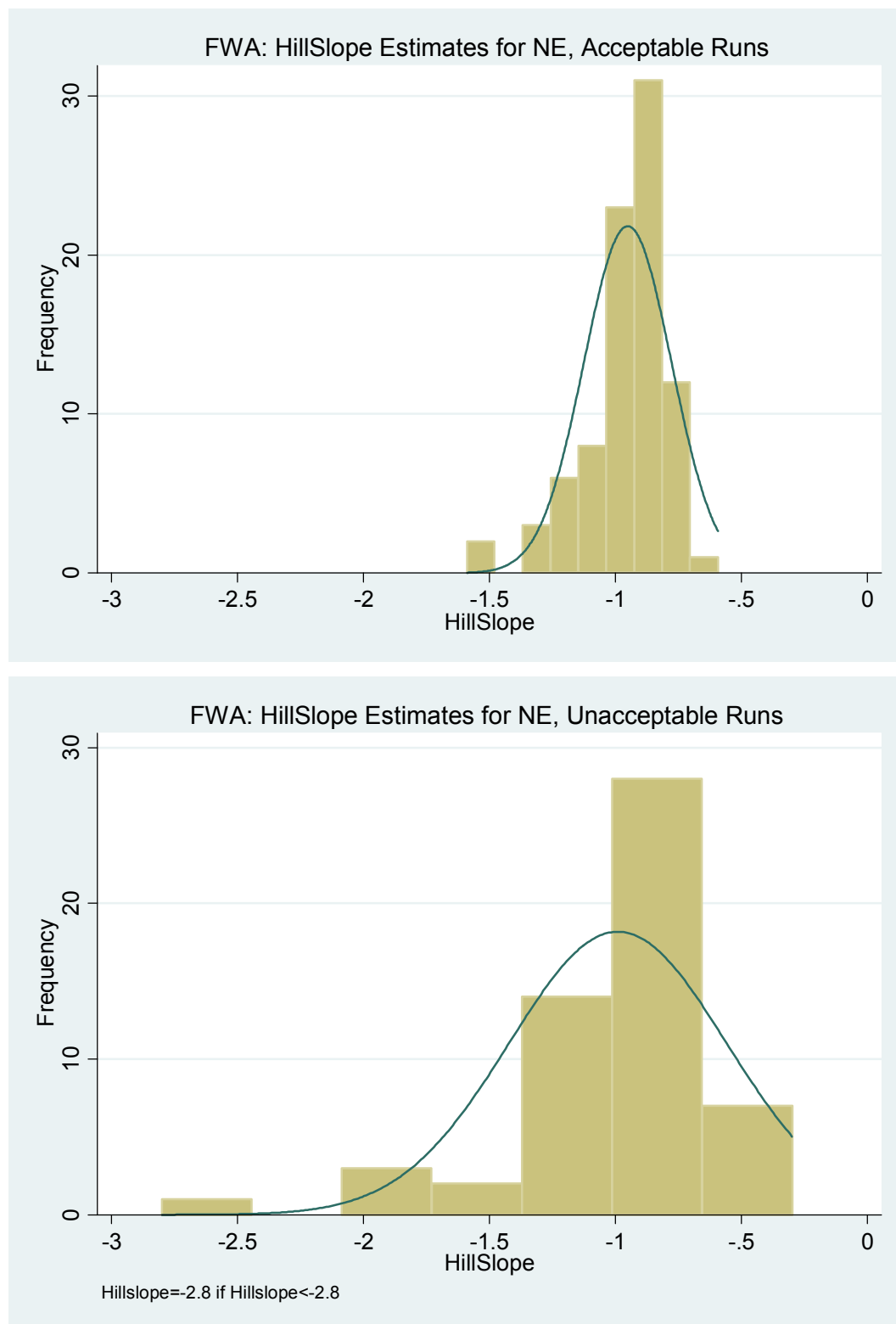


Figure F-18. FWA, NE, Histograms of Parameter Estimates for HillSlope for Acceptable and Unacceptable Runs.

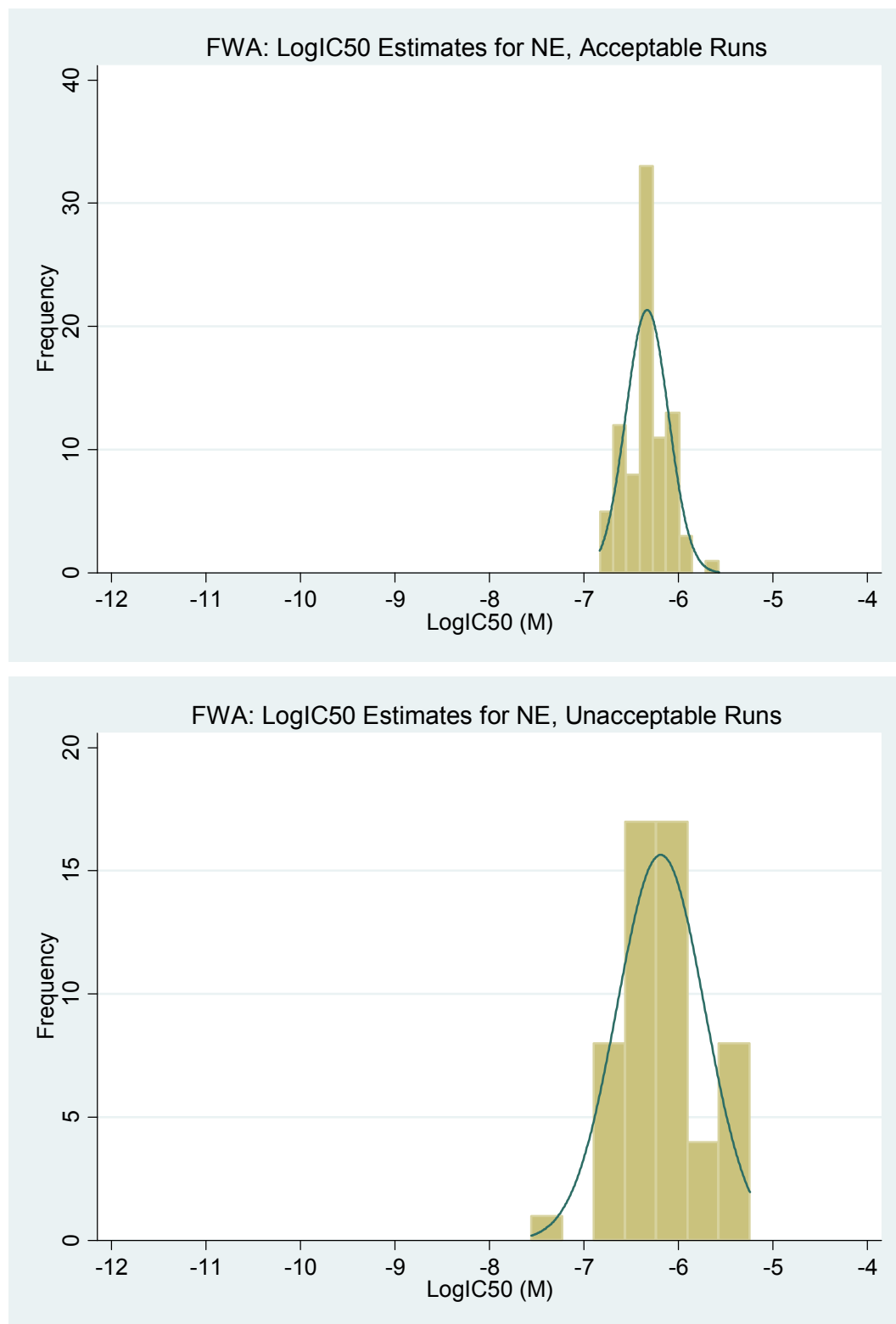


Figure F-19. FWA, NE, Histograms of Parameter Estimates for LogIC50 for Acceptable and Unacceptable Runs.

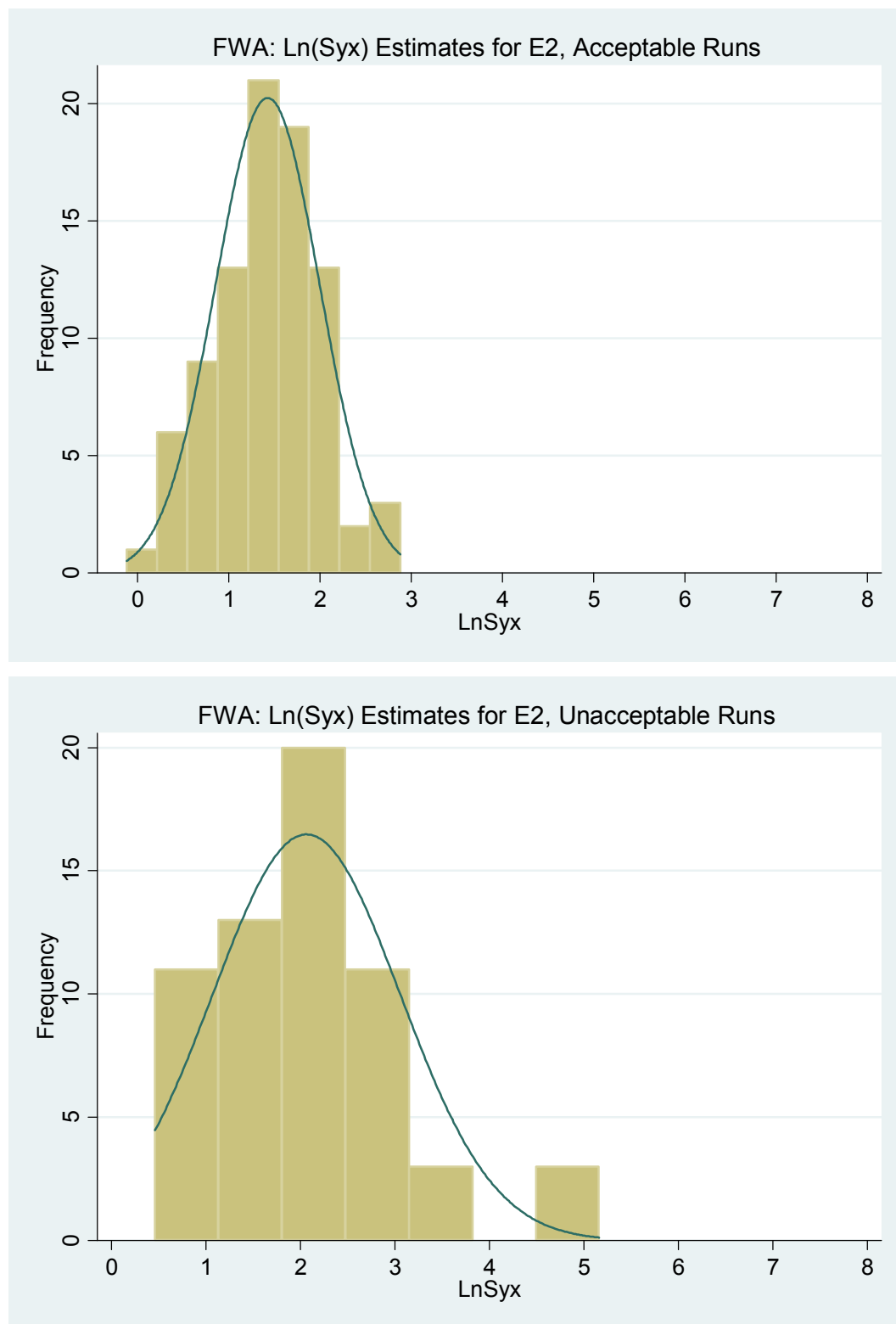


Figure F-20. FWA, E2, Histograms of Parameter Estimates for $\text{Ln}(\text{Syx})$ for Acceptable and Unacceptable Runs.

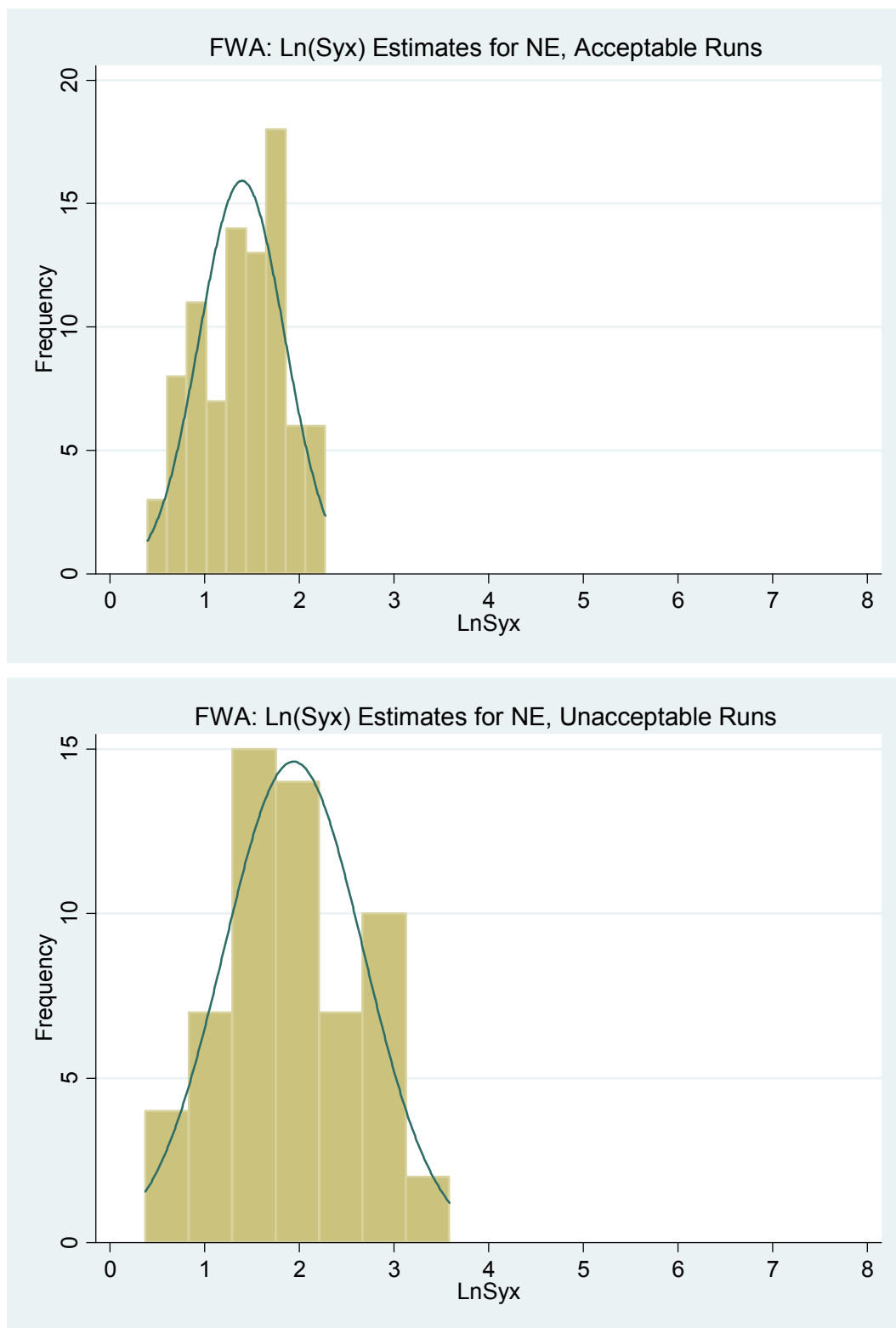


Figure F-21. FWA, NE, Histograms of Parameter Estimates for Ln(Syx) for Acceptable and Unacceptable Runs.

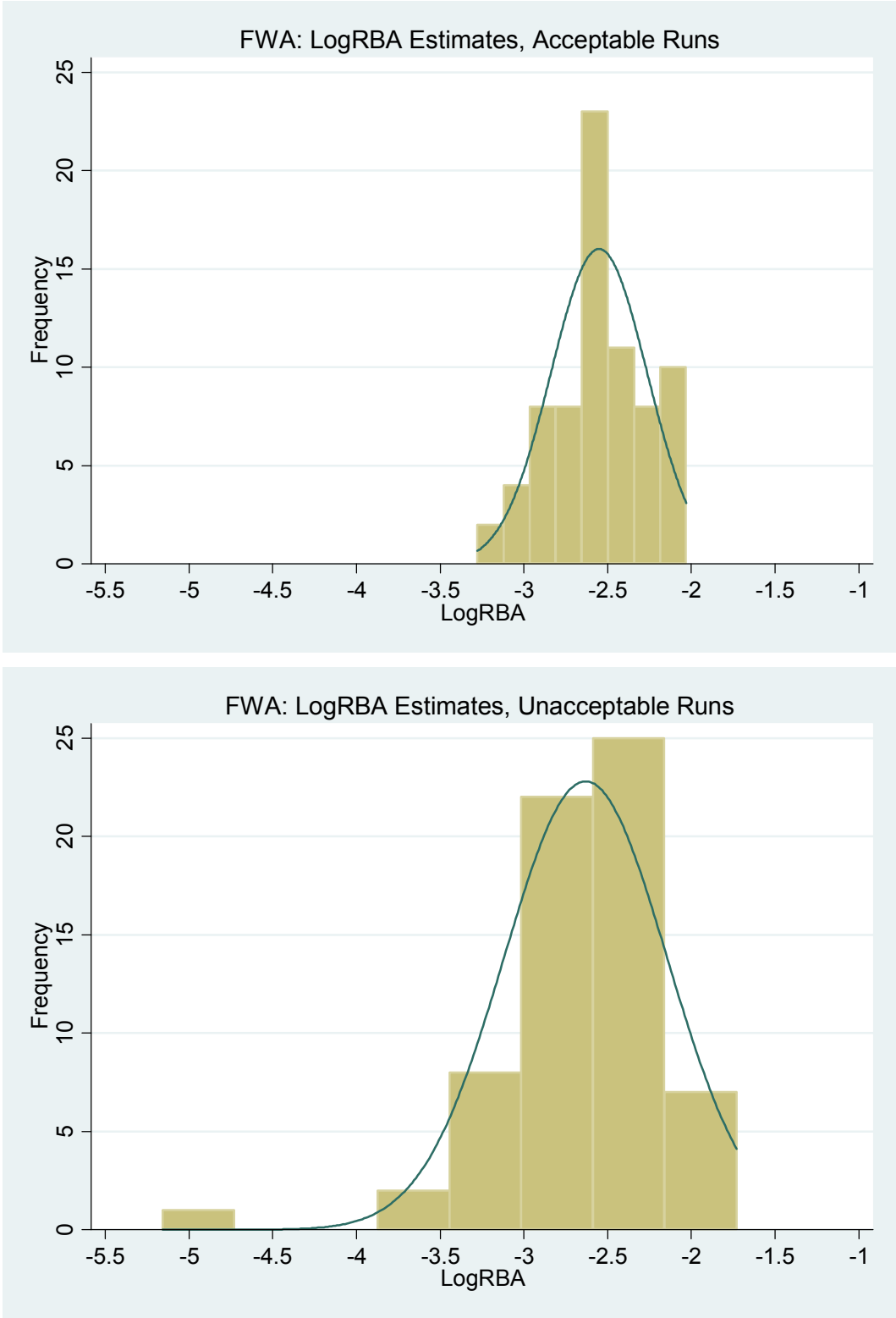


Figure F-22. FWA, Histograms of Parameter Estimates for logRBA, for Acceptable (for both E2 and NE) and Unacceptable (at least for E2 or NE) Runs.
Table F-6. FWA, E2, Acceptable Runs, Distribution of Parameter Estimates

Top

	Percentiles	Smallest	
1%	80.31	80.31	
5%	90.39	83.34	
10%	91.98	86.2	Obs 87
25%	96.77	88.48	Sum of Wgt. 87
50%	102.8		Mean 101.7375
		Largest	Std. Dev. 7.742523
75%	106.6	113.2	
90%	109.9	114.5	Variance 59.94667
95%	112.9	121.2	Skewness .064393
99%	127.7	127.7	Kurtosis 4.039546

Bottom

	Percentiles	Smallest	
1%	-3.215	-3.215	
5%	-2.119	-2.691	
10%	-1.151	-2.22	Obs 87
25%	-.4577	-2.121	Sum of Wgt. 87
50%	.2966		Mean .2865797
		Largest	Std. Dev. 1.322802
75%	.7801	2.339	
90%	2.026	2.489	Variance 1.749804
95%	2.322	3.225	Skewness .561541
99%	5.684	5.684	Kurtosis 5.564872

HillSlope

	Percentiles	Smallest	
1%	-1.553	-1.553	
5%	-1.351	-1.495	
10%	-1.251	-1.413	Obs 87
25%	-1.122	-1.356	Sum of Wgt. 87
50%	-1.002		Mean -1.021995
		Largest	Std. Dev. .169794
75%	-.919	-.7385	
90%	-.8289	-.7235	Variance .02883
95%	-.7895	-.6408	Skewness -.5153368
99%	-.5951	-.5951	Kurtosis 3.993629

Table F-6 (Continued).**LogIC50**

	Percentiles	Smallest		
1%	-9.44	-9.44		
5%	-9.14	-9.363		
10%	-9.109	-9.21	Obs	87
25%	-8.995	-9.167	Sum of Wgt.	87
50%	-8.86		Mean	-8.86377
		Largest	Std. Dev.	.1869294
75%	-8.746	-8.478		
90%	-8.66	-8.475	Variance	.0349426
95%	-8.523	-8.451	Skewness	-.2064453
99%	-8.45	-8.45	Kurtosis	3.659848

lnSyx

	Percentiles	Smallest		
1%	-.1175456	-.1175456		
5%	.4246139	.2956502		
10%	.6507615	.3169981	Obs	87
25%	1.01993	.3708737	Sum of Wgt.	87
50%	1.507627		Mean	1.427509
		Largest	Std. Dev.	.5713051
75%	1.816289	2.305581		
90%	2.061023	2.681021	Variance	.3263895
95%	2.250133	2.703373	Skewness	-.1441252
99%	2.880322	2.880322	Kurtosis	3.087475

Table F-7. FWA, E2, Unacceptable Runs, Distribution of Parameter Estimates**Top**

Percentiles		Smallest		
1%	71.12	71.12		
5%	79.71	72.75		
10%	82.02	79.71	Obs	58
25%	92.12	81.14	Sum of Wgt.	58
50%	107.95		Mean	144.6231
		Largest	Std. Dev.	156.8614
75%	132.6	178.3		
90%	169.7	300.6	Variance	24605.51
95%	300.6	746.9	Skewness	5.059001
99%	1105	1105	Kurtosis	28.98835

Bottom

Percentiles		Smallest		
1%	-24.32	-24.32		
5%	-5.1805	-5.691		
10%	-3.511	-5.4	Obs	60
25%	-1.1055	-4.961	Sum of Wgt.	60
50%	.021602		Mean	-.0371649
		Largest	Std. Dev.	4.739181
75%	1.027	4.669		
90%	2.7715	10.87	Variance	22.45984
95%	7.7695	12.44	Skewness	-1.397053
99%	14.21	14.21	Kurtosis	14.75095

HillSlope

Percentiles		Smallest		
1%	-50.87	-50.87		
5%	-2.158	-4.507		
10%	-1.564	-2.158	Obs	59
25%	-1.077	-1.666	Sum of Wgt.	59
50%	-.9064		Mean	-1.840285
		Largest	Std. Dev.	6.518073
75%	-.725	-.5597		
90%	-.5851	-.5516	Variance	42.48528
95%	-.5516	-.3619	Skewness	-7.398845
99%	-.3026	-.3026	Kurtosis	56.152

Table F-7 (Continued)**LogIC50**

	Percentiles	Smallest		
1%	-10.4	-10.4		
5%	-9.521	-10.12		
10%	-9.409	-9.521	Obs	58
25%	-9.064	-9.466	Sum of Wgt.	58
50%	-8.7755		Mean	-8.748897
		Largest	Std. Dev.	.5747569
75%	-8.444	-8.133		
90%	-8.18	-7.744	Variance	.3303455
95%	-7.744	-7.252	Skewness	.6811977
99%	-6.546	-6.546	Kurtosis	6.934215

lnSyx

	Percentiles	Smallest		
1%	.4618454	.4618454		
5%	.6719235	.5050088		
10%	.7537718	.6381629	Obs	61
25%	1.422144	.6719235	Sum of Wgt.	61
50%	1.944767		Mean	2.063985
		Largest	Std. Dev.	.9922053
75%	2.537657	3.700314		
90%	3.039271	4.567987	Variance	.9844714
95%	3.700314	4.833898	Skewness	.8767552
99%	5.164786	5.164786	Kurtosis	4.27399

Table F-8. FWA, NE, Acceptable Runs, Distribution of Parameter Estimates**Top**

	Percentiles	Smallest		
1%	69.75	69.75		
5%	86.61	83.44		
10%	87.86	84.02	Obs	86
25%	96.53	86.58	Sum of Wgt.	86
50%	101.55		Mean	101.5478
		Largest	Std. Dev.	9.332343
75%	106.7	119.1		
90%	111.8	122.6	Variance	87.09263
95%	119.1	123.2	Skewness	-.2072933
99%	123.8	123.8	Kurtosis	4.039749

Bottom

	Percentiles	Smallest		
1%	-10.36	-10.36		
5%	-4.246	-5.248		
10%	-1.845	-5.157	Obs	86
25%	-.3448	-5.149	Sum of Wgt.	86
50%	1.5375		Mean	2.006406
		Largest	Std. Dev.	3.749052
75%	4.302	8.912		
90%	6.738	9.561	Variance	14.05539
95%	8.795	10.39	Skewness	-.0879958
99%	10.5	10.5	Kurtosis	3.6247

HillSlope

	Percentiles	Smallest		
1%	-1.589	-1.589		
5%	-1.305	-1.54		
10%	-1.189	-1.335	Obs	86
25%	-1.008	-1.322	Sum of Wgt.	86
50%	-.92015		Mean	-.950507
		Largest	Std. Dev.	.1741765
75%	-.851	-.7122		
90%	-.7725	-.7111	Variance	.0303375
95%	-.7302	-.7076	Skewness	-1.288662
99%	-.5927	-.5927	Kurtosis	5.324766

Table F-8 (Continued)**LogIC50**

	Percentiles	Smallest		
1%	-6.829	-6.829		
5%	-6.689	-6.754		
10%	-6.64	-6.73	Obs	86
25%	-6.449	-6.709	Sum of Wgt.	86
50%	-6.3195		Mean	-6.329105
		Largest	Std. Dev.	.2251795
75%	-6.197	-5.956		
90%	-6.042	-5.92	Variance	.0507058
95%	-5.994	-5.905	Skewness	.2174101
99%	-5.568	-5.568	Kurtosis	3.496917

lnSyx

	Percentiles	Smallest		
1%	.3954148	.3954148		
5%	.6554453	.4523487		
10%	.7608058	.4995624	Obs	86
25%	1.003202	.6103089	Sum of Wgt.	86
50%	1.436238		Mean	1.395536
		Largest	Std. Dev.	.4495708
75%	1.719547	2.139478		
90%	1.965853	2.140301	Variance	.2021139
95%	2.112393	2.150249	Skewness	-.2358232
99%	2.273671	2.273671	Kurtosis	2.236745

Table F-9. FWA, NE, Unacceptable Runs, Distribution of Parameter Estimates**Top**

Percentiles		Smallest		
1%	53	53		
5%	72.81	66.59		
10%	77.2	72.81	Obs	58
25%	93.03	75.67	Sum of Wgt.	58
50%	108.25		Mean	125.6986
		Largest	Std. Dev.	80.33991
75%	133.1	186.9		
90%	156.8	205.4	Variance	6454.501
95%	205.4	375	Skewness	4.689536
99%	623	623	Kurtosis	27.92928

Bottom

Percentiles		Smallest		
1%	-162.9	-162.9		
5%	-14.18	-37.29		
10%	-9.912	-14.18	Obs	59
25%	-1.66	-11.88	Sum of Wgt.	59
50%	2.688		Mean	-.1919029
		Largest	Std. Dev.	23.60763
75%	8.104	16.43		
90%	15.67	17.29	Variance	557.3202
95%	17.29	17.8	Skewness	-5.69144
99%	29.32	29.32	Kurtosis	39.75969

HillSlope

Percentiles		Smallest		
1%	-3.426	-3.426		
5%	-1.834	-2.031		
10%	-1.41	-1.834	Obs	55
25%	-1.16	-1.753	Sum of Wgt.	55
50%	-.9113		Mean	-1.001113
		Largest	Std. Dev.	.4850939
75%	-.7123	-.4621		
90%	-.6062	-.3465	Variance	.2353161
95%	-.3465	-.3076	Skewness	-2.491397
99%	-.2977	-.2977	Kurtosis	12.83597

Table F-9 (Continued)**LogIG50**

	Percentiles	Smallest		
1%	-7.555	-7.555		
5%	-6.831	-6.888		
10%	-6.755	-6.831	Obs	55
25%	-6.461	-6.781	Sum of Wgt.	55
50%	-6.214		Mean	-6.185182
		Largest	Std. Dev.	.4633297
75%	-5.936	-5.37		
90%	-5.487	-5.297	Variance	.2146744
95%	-5.297	-5.242	Skewness	.0518586
99%	-5.242	-5.242	Kurtosis	3.387155

lnSyx

	Percentiles	Smallest		
1%	.3750059	.3750059		
5%	.65752	.506215		
10%	.9222728	.65752	Obs	59
25%	1.529962	.7443154	Sum of Wgt.	59
50%	1.809763		Mean	1.939879
		Largest	Std. Dev.	.7391774
75%	2.550226	3.082827		
90%	2.9877	3.113515	Variance	.5463833
95%	3.113515	3.154017	Skewness	.0345785
99%	3.587677	3.587677	Kurtosis	2.409647

Table F-10. FWA, LogRBA, Acceptable and Unacceptable Runs, Distribution of Parameter Estimates**Acceptable**

Percentiles		Smallest		
1%	-3.277	-3.277		
5%	-3.085	-3.243		
10%	-2.875	-3.111	Obs	74
25%	-2.717	-3.085	Sum of Wgt.	74
50%	-2.567	Largest	Mean	-2.551014
			Std. Dev.	.2876349
75%	-2.369		Variance	.0827338
90%	-2.145		Skewness	-.220889
95%	-2.099		Kurtosis	2.777946
99%	-2.029	-2.029		

Unacceptable

Percentiles		Smallest		
1%	-5.158	-5.158		
5%	-3.247	-3.614		
10%	-3.055	-3.481	Obs	65
25%	-2.852	-3.247	Sum of Wgt.	65
50%	-2.593	Largest	Mean	-2.631615
			Std. Dev.	.487389
75%	-2.383		Variance	.2375481
90%	-2.084		Skewness	-2.153305
95%	-1.993		Kurtosis	12.52827
99%	-1.73	-1.73		

**Appendix G. Binding Classification of Chemicals for Individual
Laboratories and Test Runs**

Appendix G. Binding Classification of Chemicals for Individual Laboratories and Test Runs

The following tables show the classification of each run for each chemical at each lab (Tables G-5 and G-6), using only the runs for which both the estradiol and norethynodrel standards were judged by EPA to be acceptable, and which met the criteria for testability (see text in report for the criteria).

Tables G-1 and G-3 combine individual results on the same chemical within a lab and within a subtask.

Tables G-2 and G-4 combine individual results on the same chemical within a lab but across subtasks. The tables differ (potentially) from Tables G-1 and G-3 only for those chemicals that were tested in more than one subtask.

Table G-1 CERI, Binding Classification of Chemicals, by Subtask and Laboratory

Table G-2 CERI, Binding Classification of Chemicals, by Laboratory

Table G-3 FWA, Binding Classification of Chemicals, by Subtask and Laboratory

Table G-2 FWA, Binding Classification of Chemicals, by Laboratory

Table G-5 CERI, Binding Classification of Chemicals, by Individual Run

Table G-6 FWA, Binding Classification of Chemicals, by Individual Run

Table G-1. CERI, Test Chemical Binding Classifications by Subtask within Each Laboratory, Based on Acceptable and Testable Runs. Binder (Avg=>1.5), Equivocal (0.5<=Avg <1.5), Non-Binder (Avg<0.5).

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	Atr	st3	Ceetox	0	Non-Binder	1	0
CERI	Atr	st3	Freyberger	0	Non-Binder	3	0
CERI	Atr	st3	JapanCERI	0	Non-Binder	3	0
CERI	Atr	st3	Lovelace	1	Equivocal	2	0
CERI	Atr	st3	Missouri	0	Non-Binder	6	0
CERI	BPA	st3	Ceetox	2	Binder	1	0
CERI	BPA	st3	Freyberger	2	Binder	2	0
CERI	BPA	st3	JapanCERI	2	Binder	4	0
CERI	BPA	st3	Lovelace	2	Binder	3	0
CERI	BPA	st3	Missouri	2	Binder	3	0
CERI	BPA	st4	Ceetox	2	Binder	8	0
CERI	BPA	st4	Missouri	1.666667	Binder	6	0
CERI	BaA	st3	Ceetox	0	Non-Binder	1	0
CERI	BaA	st3	Freyberger	0	Non-Binder	3	0
CERI	BaA	st3	JapanCERI	0	Non-Binder	3	0
CERI	BaA	st3	Lovelace	0.666667	Equivocal	3	0
CERI	BaA	st3	Missouri	0	Non-Binder	6	0
CERI	ButylPar	st2	Ceetox	2	Binder	2	0
CERI	ButylPar	st2	Freyberger	2	Binder	3	0
CERI	ButylPar	st2	JapanCERI	2	Binder	3	0
CERI	ButylPar	st2	Lovelace	1.333333	Equivocal	3	0
CERI	ButylPar	st2	Missouri	2	Binder	3	0
CERI	Cort	st2	Ceetox	0	Non-Binder	2	0
CERI	Cort	st2	Freyberger	0.333333	Non-Binder	3	0
CERI	Cort	st2	JapanCERI	0	Non-Binder	3	0
CERI	Cort	st2	Lovelace	0.75	Equivocal	4	0
CERI	Cort	st2	Missouri	0.333333	Non-Binder	3	0
CERI	Cort_b	st4	Ceetox	0.25	Non-Binder	8	0
CERI	Cort_b	st4	Missouri	0	Non-Binder	6	0
CERI	DBP	st1	Ceetox	0	Non-Binder	3	0
CERI	DBP	st1	JapanCERI	0	Non-Binder	3	0
CERI	DBP	st1	Lovelace	0	Non-Binder	2	0
CERI	DBP	st1	Missouri	0	Non-Binder	10	0
CERI	DBP	st12	Lovelace	0.8	Equivocal	5	0
CERI	DBP	st2	Ceetox	0	Non-Binder	2	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	DBP	st2	Freyberger	0	Non-Binder	6	0
CERI	DBP	st2	JapanCERI	0	Non-Binder	3	0
CERI	DBP	st2	Lovelace	0.666667	Equivocal	6	0
CERI	DBP	st2	Missouri	0.333333	Non-Binder	3	0
CERI	DBP	st3	Ceetox	0	Non-Binder	1	0
CERI	DBP	st3	Freyberger	0.25	Non-Binder	8	0
CERI	DBP	st3	JapanCERI	0	Non-Binder	10	0
CERI	DBP	st3	Lovelace	0.428571	Non-Binder	7	0
CERI	DBP	st3	Missouri	0	Non-Binder	9	0
CERI	DBP	st4	Ceetox	0	Non-Binder	4	0
CERI	DBP	st4	Missouri	0.166667	Non-Binder	6	0
CERI	DBP-TC	st12	Lovelace	1.8	Binder	5	0
CERI	DBP-TC	st3	Ceetox	2	Binder	1	0
CERI	DBP-TC	st3	Freyberger	2	Binder	3	0
CERI	DBP-TC	st3	JapanCERI	0	Non-Binder	3	0
CERI	DBP-TC	st3	Lovelace	1.333333	Equivocal	3	0
CERI	DBP-TC	st3	Missouri	0	Non-Binder	3	0
CERI	DDT	st2	Ceetox	2	Binder	2	0
CERI	DDT	st2	Freyberger	2	Binder	3	0
CERI	DDT	st2	JapanCERI	2	Binder	3	0
CERI	DDT	st2	Lovelace	1.333333	Equivocal	3	0
CERI	DDT	st2	Missouri	2	Binder	3	0
CERI	DES	st2	Ceetox	2	Binder	2	0
CERI	DES	st2	Freyberger	2	Binder	3	0
CERI	DES	st2	JapanCERI	2	Binder	3	0
CERI	DES	st2	Lovelace	1.6	Binder	5	0
CERI	DES	st2	Missouri	2	Binder	3	0
CERI	DHT	st3	Ceetox	2	Binder	1	0
CERI	DHT	st3	Freyberger	2	Binder	3	0
CERI	DHT	st3	JapanCERI	2	Binder	3	0
CERI	DHT	st3	Lovelace	1.666667	Binder	3	0
CERI	DHT	st3	Missouri	1.333333	Equivocal	3	0
CERI	Dex	st4	Ceetox	0.25	Non-Binder	8	0
CERI	Dex	st4	Missouri	0.333333	Non-Binder	6	0
CERI	E2-TC	st12	Lovelace	1.4	Equivocal	5	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	E2-TC	st3	Ceetox	2	Binder	1	0
CERI	E2-TC	st3	Freyberger	1.5	Binder	2	0
CERI	E2-TC	st3	JapanCERI	2	Binder	3	0
CERI	E2-TC	st3	Lovelace	1.25	Equivocal	4	0
CERI	E2-TC	st3	Missouri	1.333333	Equivocal	3	0
CERI	EE2	st2	Ceetox	1.5	Binder	2	0
CERI	EE2	st2	Freyberger	2	Binder	3	0
CERI	EE2	st2	JapanCERI	2	Binder	3	0
CERI	EE2	st2	Lovelace	1	Equivocal	5	0
CERI	EE2	st2	Missouri	2	Binder	3	0
CERI	EE2_10xDilution	st2	Lovelace	2	Binder	1	0
CERI	EE2_b	st12	Lovelace	1.2	Equivocal	5	0
CERI	ELactone	st3	Ceetox	2	Binder	1	0
CERI	ELactone	st3	Freyberger	2	Binder	2	0
CERI	ELactone	st3	JapanCERI	1	Equivocal	3	0
CERI	ELactone	st3	Lovelace	1.5	Binder	2	0
CERI	ELactone	st3	Missouri	0.666667	Equivocal	6	0
CERI	Equol	st2	Ceetox	2	Binder	2	0
CERI	Equol	st2	Freyberger	2	Binder	3	0
CERI	Equol	st2	JapanCERI	2	Binder	3	0
CERI	Equol	st2	Lovelace	1	Equivocal	4	0
CERI	Equol	st2	Missouri	2	Binder	3	0
CERI	Gen	st2	Ceetox	2	Binder	2	0
CERI	Gen	st2	Freyberger	1	Equivocal	3	0
CERI	Gen	st2	JapanCERI	1.666667	Binder	3	0
CERI	Gen	st2	Lovelace	1	Equivocal	2	0
CERI	Gen	st2	Missouri	1.666667	Binder	3	0
CERI	Gen_b	st4	Ceetox	1.875	Binder	8	0
CERI	Gen_b	st4	Missouri	1.166667	Equivocal	6	0
CERI	HPTE	st4	Ceetox	2	Binder	8	0
CERI	HPTE	st4	Missouri	1.833333	Binder	6	0
CERI	Heptylphenol	st3	Ceetox	2	Binder	1	0
CERI	Heptylphenol	st3	Freyberger	2	Binder	3	0
CERI	Heptylphenol	st3	JapanCERI	1	Equivocal	4	0
CERI	Heptylphenol	st3	Lovelace	1	Equivocal	3	0
CERI	Heptylphenol	st3	Missouri	1	Equivocal	6	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	Hexestrol	st2	Ceetox	2	Binder	2	0
CERI	Hexestrol	st2	Freyberger	2	Binder	3	0
CERI	Hexestrol	st2	JapanCERI	2	Binder	3	0
CERI	Hexestrol	st2	Lovelace	1.4	Equivocal	5	0
CERI	Hexestrol	st2	Missouri	2	Binder	3	0
CERI	Kepone	st3	Ceetox	2	Binder	1	0
CERI	Kepone	st3	Freyberger	2	Binder	2	0
CERI	Kepone	st3	JapanCERI	2	Binder	3	0
CERI	Kepone	st3	Lovelace	2	Binder	2	0
CERI	Kepone	st3	Missouri	2	Binder	6	0
CERI	NE-TC	st3	Ceetox	2	Binder	1	0
CERI	NE-TC	st3	Freyberger	2	Binder	3	0
CERI	NE-TC	st3	JapanCERI	2	Binder	3	0
CERI	NE-TC	st3	Lovelace	2	Binder	3	0
CERI	NE-TC	st3	Missouri	2	Binder	3	0
CERI	NPhenol	st2	Ceetox	1.5	Binder	2	0
CERI	NPhenol	st2	Freyberger	2	Binder	3	0
CERI	NPhenol	st2	JapanCERI	2	Binder	3	0
CERI	NPhenol	st2	Lovelace	1.5	Binder	2	0
CERI	NPhenol	st2	Missouri	2	Binder	3	0
CERI	Nethdrone	st4	Ceetox	2	Binder	16	0
CERI	Nethdrone	st4	Missouri	1.75	Binder	12	0
CERI	OTES	st3	Ceetox	0	Non-Binder	1	0
CERI	OTES	st3	Freyberger	0	Non-Binder	3	0
CERI	OTES	st3	JapanCERI	0	Non-Binder	3	0
CERI	OTES	st3	Lovelace	0	Non-Binder	2	0
CERI	OTES	st3	Missouri	0	Non-Binder	6	0
CERI	OTES	st4	Ceetox	0	Non-Binder	8	0
CERI	OTES	st4	Missouri	0.333333	Non-Binder	6	0
CERI	Progesterone	st3	Ceetox	0	Non-Binder	1	0
CERI	Progesterone	st3	Freyberger	0	Non-Binder	3	0
CERI	Progesterone	st3	JapanCERI	0	Non-Binder	4	0
CERI	Progesterone	st3	Lovelace	0	Non-Binder	2	0
CERI	Progesterone	st3	Missouri	0	Non-Binder	6	0
CERI	Tamox	st3	Ceetox	2	Binder	1	0
CERI	Tamox	st3	Freyberger	1.5	Binder	2	0
CERI	Tamox	st3	JapanCERI	2	Binder	3	0
CERI	Tamox	st3	Lovelace	2	Binder	3	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	Tamox	st3	Missouri	1.666667	Binder	3	0
CERI	Zear	st3	Ceetox	2	Binder	1	0
CERI	Zear	st3	Freyberger	2	Binder	3	0
CERI	Zear	st3	JapanCERI	2	Binder	3	0
CERI	Zear	st3	Lovelace	2	Binder	3	0
CERI	Zear	st3	Missouri	2	Binder	3	0

Table G-2. CERI, Test Chemical Binding Classifications within Each Laboratory, Based on Acceptable and Testable Runs. Binder (Avg=>1.5), Equivocal (0.5<=Avg <1.5), Non-Binder (Avg<0.5).

Protocol	Laboratory	Chemical	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	Ceetox	Atr	0	Non-Binder	1	0
CERI	Ceetox	BPA	2	Binder	9	0
CERI	Ceetox	BaA	0	Non-Binder	1	0
CERI	Ceetox	ButylPar	2	Binder	2	0
CERI	Ceetox	Cort	0	Non-Binder	2	0
CERI	Ceetox	Cort_b	0.25	Non-Binder	8	0
CERI	Ceetox	DBP	0	Non-Binder	10	0
CERI	Ceetox	DBP-TC	2	Binder	1	0
CERI	Ceetox	DDT	2	Binder	2	0
CERI	Ceetox	DES	2	Binder	2	0
CERI	Ceetox	DHT	2	Binder	1	0
CERI	Ceetox	Dex	0.25	Non-Binder	8	0
CERI	Ceetox	E2-TC	2	Binder	1	0
CERI	Ceetox	EE2	1.5	Binder	2	0
CERI	Ceetox	ELactone	2	Binder	1	0
CERI	Ceetox	Equol	2	Binder	2	0
CERI	Ceetox	Gen	2	Binder	2	0
CERI	Ceetox	Gen_b	1.875	Binder	8	0
CERI	Ceetox	HPTE	2	Binder	8	0
CERI	Ceetox	Heptylphenol	2	Binder	1	0
CERI	Ceetox	Hexestrol	2	Binder	2	0
CERI	Ceetox	Kepone	2	Binder	1	0
CERI	Ceetox	NE-TC	2	Binder	1	0
CERI	Ceetox	NPhenol	1.5	Binder	2	0
CERI	Ceetox	Nethdrone	2	Binder	16	0
CERI	Ceetox	OTES	0	Non-Binder	9	0
CERI	Ceetox	Progesterone	0	Non-Binder	1	0
CERI	Ceetox	Tamox	2	Binder	1	0
CERI	Ceetox	Zear	2	Binder	1	0
CERI	Freyberger	Atr	0	Non-Binder	3	0
CERI	Freyberger	BPA	2	Binder	2	0
CERI	Freyberger	BaA	0	Non-Binder	3	0
CERI	Freyberger	ButylPar	2	Binder	3	0
CERI	Freyberger	Cort	0.333333	Non-Binder	3	0
CERI	Freyberger	DBP	0.142857	Non-Binder	14	0
CERI	Freyberger	DBP-TC	2	Binder	3	0
CERI	Freyberger	DDT	2	Binder	3	0
CERI	Freyberger	DES	2	Binder	3	0
CERI	Freyberger	DHT	2	Binder	3	0
CERI	Freyberger	E2-TC	1.5	Binder	2	0
CERI	Freyberger	EE2	2	Binder	3	0
CERI	Freyberger	ELactone	2	Binder	2	0
CERI	Freyberger	Equol	2	Binder	3	0
CERI	Freyberger	Gen	1	Equivocal	3	0
CERI	Freyberger	Heptylphenol	2	Binder	3	0
CERI	Freyberger	Hexestrol	2	Binder	3	0
CERI	Freyberger	Kepone	2	Binder	2	0
CERI	Freyberger	NE-TC	2	Binder	3	0
CERI	Freyberger	NPhenol	2	Binder	3	0
CERI	Freyberger	OTES	0	Non-Binder	3	0
CERI	Freyberger	Progesterone	0	Non-Binder	3	0
CERI	Freyberger	Tamox	1.5	Binder	2	0

Protocol	Laboratory	Chemical	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	Freyberger	Zear	2	Binder	3	0
CERI	JapanCERI	Atr	0	Non-Binder	3	0
CERI	JapanCERI	BPA	2	Binder	4	0
CERI	JapanCERI	BaA	0	Non-Binder	3	0
CERI	JapanCERI	ButylPar	2	Binder	3	0
CERI	JapanCERI	Cort	0	Non-Binder	3	0
CERI	JapanCERI	DBP	0	Non-Binder	16	0
CERI	JapanCERI	DBP-TC	0	Non-Binder	3	0
CERI	JapanCERI	DDT	2	Binder	3	0
CERI	JapanCERI	DES	2	Binder	3	0
CERI	JapanCERI	DHT	2	Binder	3	0
CERI	JapanCERI	E2-TC	2	Binder	3	0
CERI	JapanCERI	EE2	2	Binder	3	0
CERI	JapanCERI	ELactone	1	Equivocal	3	0
CERI	JapanCERI	Equol	2	Binder	3	0
CERI	JapanCERI	Gen	1.666667	Binder	3	0
CERI	JapanCERI	Heptylphenol	1	Equivocal	4	0
CERI	JapanCERI	Hexestrol	2	Binder	3	0
CERI	JapanCERI	Kepone	2	Binder	3	0
CERI	JapanCERI	NE-TC	2	Binder	3	0
CERI	JapanCERI	NPhenol	2	Binder	3	0
CERI	JapanCERI	OTES	0	Non-Binder	3	0
CERI	JapanCERI	Progesterone	0	Non-Binder	4	0
CERI	JapanCERI	Tamox	2	Binder	3	0
CERI	JapanCERI	Zear	2	Binder	3	0
CERI	Lovelace	Atr	1	Equivocal	2	0
CERI	Lovelace	BPA	2	Binder	3	0
CERI	Lovelace	BaA	0.666667	Equivocal	3	0
CERI	Lovelace	ButylPar	1.333333	Equivocal	3	0
CERI	Lovelace	Cort	0.75	Equivocal	4	0
CERI	Lovelace	DBP	0.55	Equivocal	20	0
CERI	Lovelace	DBP-TC	1.625	Binder	8	0
CERI	Lovelace	DDT	1.333333	Equivocal	3	0
CERI	Lovelace	DES	1.6	Binder	5	0
CERI	Lovelace	DHT	1.666667	Binder	3	0
CERI	Lovelace	E2-TC	1.333333	Equivocal	9	0
CERI	Lovelace	EE2	1	Equivocal	5	0
CERI	Lovelace	EE2_10xDilution	2	Binder	1	
CERI	Lovelace	EE2_b	1.2	Equivocal	5	0
CERI	Lovelace	ELactone	1.5	Binder	2	0
CERI	Lovelace	Equol	1	Equivocal	4	0
CERI	Lovelace	Gen	1	Equivocal	2	0
CERI	Lovelace	Heptylphenol	1	Equivocal	3	0
CERI	Lovelace	Hexestrol	1.4	Equivocal	5	0
CERI	Lovelace	Kepone	2	Binder	2	0
CERI	Lovelace	NE-TC	2	Binder	3	0
CERI	Lovelace	NPhenol	1.5	Binder	2	0
CERI	Lovelace	OTES	0	Non-Binder	2	0
CERI	Lovelace	Progesterone	0	Non-Binder	2	0
CERI	Lovelace	Tamox	2	Binder	3	0
CERI	Lovelace	Zear	2	Binder	3	0
CERI	Missouri	Atr	0	Non-Binder	6	0
CERI	Missouri	BPA	1.777778	Binder	9	0
CERI	Missouri	BaA	0	Non-Binder	6	0
CERI	Missouri	ButylPar	2	Binder	3	0

Protocol	Laboratory	Chemical	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
CERI	Missouri	Cort	0.333333	Non-Binder	3	0
CERI	Missouri	Cort_b	0	Non-Binder	6	0
CERI	Missouri	DBP	0.071429	Non-Binder	28	0
CERI	Missouri	DBP-TC	0	Non-Binder	3	0
CERI	Missouri	DDT	2	Binder	3	0
CERI	Missouri	DES	2	Binder	3	0
CERI	Missouri	DHT	1.333333	Equivocal	3	0
CERI	Missouri	Dex	0.333333	Non-Binder	6	0
CERI	Missouri	E2-TC	1.333333	Equivocal	3	0
CERI	Missouri	EE2	2	Binder	3	0
CERI	Missouri	ELactone	0.666667	Equivocal	6	0
CERI	Missouri	Equol	2	Binder	3	0
CERI	Missouri	Gen	1.666667	Binder	3	0
CERI	Missouri	Gen_b	1.166667	Equivocal	6	0
CERI	Missouri	HPTE	1.833333	Binder	6	0
CERI	Missouri	Heptylphenol	1	Equivocal	6	0
CERI	Missouri	Hexestrol	2	Binder	3	0
CERI	Missouri	Kepone	2	Binder	6	0
CERI	Missouri	NE-TC	2	Binder	3	0
CERI	Missouri	NPhenol	2	Binder	3	0
CERI	Missouri	Nethdrone	1.75	Binder	12	0
CERI	Missouri	OTES	0.166667	Non-Binder	12	0
CERI	Missouri	Progesterone	0	Non-Binder	6	0
CERI	Missouri	Tamox	1.666667	Binder	3	0
CERI	Missouri	Zear	2	Binder	3	0

Table G-3. FWA, Test Chemical Binding Classifications by Subtask within Each Laboratory, Based on Acceptable and Testable Runs. Binder (Avg=>1.5), Equivocal (0.5<=Avg <1.5), Non-Binder (Avg<0.5).

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	Atr	st12	Lovelace	0	Non-Binder	1	0
FWA	Atr	st3	Ceetox	0.333333	Non-Binder	3	0
FWA	Atr	st3	Dietrich	0.75	Equivocal	4	0
FWA	Atr	st3	Freyberger	0	Non-Binder	3	0
FWA	Atr	st3	JapanCERI	0	Non-Binder	4	0
FWA	Atr	st3	Missouri	0	Non-Binder	3	0
FWA	BPA	st3	Ceetox	2	Binder	2	0
FWA	BPA	st3	Dietrich	2	Binder	1	0
FWA	BPA	st3	Freyberger	2	Binder	2	0
FWA	BPA	st3	JapanCERI	2	Binder	3	0
FWA	BPA	st3	Lovelace	2	Binder	1	0
FWA	BPA	st3	Missouri	2	Binder	3	0
FWA	BPA	st4	Ceetox	1.833333	Binder	6	0
FWA	BPA	st4	Missouri	2	Binder	7	0
FWA	BaA_DMSO	st3	Ceetox	0.666667	Equivocal	3	0
FWA	BaA_DMSO	st3	JapanCERI	0.25	Non-Binder	4	0
FWA	BaA_DMSO	st3	Missouri	0	Non-Binder	2	0
FWA	BaA_Ethol	st3	Dietrich	0.25	Non-Binder	4	0
FWA	BaA_Ethol	st3	Freyberger	0	Non-Binder	3	0
FWA	BaA_Ethol	st3	Missouri	0	Non-Binder	2	0
FWA	ButylPar	st2	Ceetox	1.8	Binder	5	0
FWA	ButylPar	st2	Dietrich	1.25	Equivocal	4	0
FWA	ButylPar	st2	Freyberger	2	Binder	3	0
FWA	ButylPar	st2	JapanCERI	2	Binder	3	0
FWA	ButylPar	st2	Lovelace	2	Binder	2	0
FWA	ButylPar	st2	Missouri	2	Binder	4	0
FWA	ButylPar	st3	Dietrich	2	Binder	1	0
FWA	Cort	st2	Ceetox	0	Non-Binder	5	0
FWA	Cort	st2	Dietrich	1	Equivocal	4	0
FWA	Cort	st2	Freyberger	0	Non-Binder	6	0
FWA	Cort	st2	JapanCERI	0	Non-Binder	3	0
FWA	Cort	st2	Lovelace	2	Binder	1	0
FWA	Cort	st2	Missouri	0	Non-Binder	4	0
FWA	Cort_b	st3	Dietrich	0.25	Non-Binder	4	0
FWA	Cort_b	st4	Ceetox	0	Non-Binder	6	0
FWA	Cort_b	st4	Missouri	0.125	Non-Binder	8	0
FWA	DBP	st1	Ceetox	0.5	Equivocal	2	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	DBP	st1	Dietrich	1	Equivocal	1	0
FWA	DBP	st1	JapanCERI	0	Non-Binder	3	0
FWA	DBP	st1	Missouri	0	Non-Binder	5	0
FWA	DBP	st12	Lovelace	0	Non-Binder	3	0
FWA	DBP	st2	Ceetox	0.4	Non-Binder	5	0
FWA	DBP	st2	Dietrich	0	Non-Binder	3	0
FWA	DBP	st2	Freyberger	0	Non-Binder	6	0
FWA	DBP	st2	JapanCERI	0	Non-Binder	3	0
FWA	DBP	st2	Lovelace	0.333333	Non-Binder	3	0
FWA	DBP	st2	Missouri	0	Non-Binder	4	0
FWA	DBP	st3	Ceetox	0	Non-Binder	5	0
FWA	DBP	st3	Dietrich	0	Non-Binder	7	0
FWA	DBP	st3	Freyberger	0.2	Non-Binder	5	0
FWA	DBP	st3	JapanCERI	0	Non-Binder	10	0
FWA	DBP	st3	Lovelace	0	Non-Binder	2	0
FWA	DBP	st3	Missouri	0	Non-Binder	8	0
FWA	DBP	st4	Ceetox	0	Non-Binder	3	0
FWA	DBP	st4	Missouri	0	Non-Binder	8	0
FWA	DBP-TC	st12	Lovelace	1.5	Binder	2	0
FWA	DBP-TC	st3	Ceetox	0.5	Equivocal	2	0
FWA	DBP-TC	st3	Dietrich	1	Equivocal	1	0
FWA	DBP-TC	st3	Freyberger	0.5	Equivocal	2	0
FWA	DBP-TC	st3	JapanCERI	1	Equivocal	2	0
FWA	DBP-TC	st3	Missouri	0.666667	Equivocal	3	0
FWA	DDT	st2	Ceetox	1.6	Binder	5	0
FWA	DDT	st2	Dietrich	1.25	Equivocal	4	0
FWA	DDT	st2	Freyberger	2	Binder	6	0
FWA	DDT	st2	JapanCERI	2	Binder	3	0
FWA	DDT	st2	Lovelace	2	Binder	1	0
FWA	DDT	st2	Missouri	2	Binder	4	0
FWA	DDT	st3	Dietrich	1.8	Binder	5	0
FWA	DES	st2	Ceetox	2	Binder	5	0
FWA	DES	st2	Dietrich	1.5	Binder	4	0
FWA	DES	st2	Freyberger	2	Binder	3	0
FWA	DES	st2	JapanCERI	2	Binder	3	0
FWA	DES	st2	Lovelace	2	Binder	2	0
FWA	DES	st2	Missouri	2	Binder	4	0
FWA	DES	st3	Dietrich	1.75	Binder	4	0
FWA	DHT	st3	Ceetox	2	Binder	2	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	DHT	st3	Dietrich	1.75	Binder	4	0
FWA	DHT	st3	Freyberger	2	Binder	3	0
FWA	DHT	st3	JapanCERI	2	Binder	2	0
FWA	DHT	st3	Lovelace	2	Binder	1	0
FWA	DHT	st3	Missouri	2	Binder	3	0
FWA	Dex	st3	Dietrich	0.75	Equivocal	4	0
FWA	Dex	st4	Ceetox	0	Non-Binder	6	0
FWA	Dex	st4	Missouri	0.125	Non-Binder	8	0
FWA	E2-TC	st12	Lovelace	1.5	Binder	2	0
FWA	E2-TC	st2	Ceetox	1	Equivocal	1	0
FWA	E2-TC	st3	Ceetox	2	Binder	2	0
FWA	E2-TC	st3	Dietrich	1.75	Binder	4	0
FWA	E2-TC	st3	Freyberger	1.333333	Equivocal	3	0
FWA	E2-TC	st3	JapanCERI	1.833333	Binder	6	0
FWA	E2-TC	st3	Lovelace	1.5	Binder	2	0
FWA	E2-TC	st3	Missouri	2	Binder	3	0
FWA	EE2	st2	Ceetox	1.75	Binder	4	0
FWA	EE2	st2	Dietrich	1.25	Equivocal	4	0
FWA	EE2	st2	Freyberger	2	Binder	3	0
FWA	EE2	st2	JapanCERI	2	Binder	3	0
FWA	EE2	st2	Lovelace	2	Binder	1	0
FWA	EE2	st2	Missouri	2	Binder	4	0
FWA	EE2	st3	Dietrich	1.6	Binder	5	0
FWA	EE2_b	st12	Lovelace	1.5	Binder	2	0
FWA	ELactone	st3	Ceetox	2	Binder	2	0
FWA	ELactone	st3	Dietrich	2	Binder	1	0
FWA	ELactone	st3	Freyberger	1.5	Binder	2	0
FWA	ELactone	st3	JapanCERI	2	Binder	3	0
FWA	ELactone	st3	Missouri	2	Binder	2	0
FWA	Equol	st2	Ceetox	1.8	Binder	5	0
FWA	Equol	st2	Dietrich	1.666667	Binder	3	0
FWA	Equol	st2	Freyberger	2	Binder	3	0
FWA	Equol	st2	JapanCERI	2	Binder	3	0
FWA	Equol	st2	Lovelace	2	Binder	1	0
FWA	Equol	st2	Missouri	2	Binder	4	0
FWA	Equol	st3	Dietrich	2	Binder	1	0
FWA	Gen	st2	Ceetox	1.8	Binder	5	0
FWA	Gen	st2	Dietrich	2	Binder	3	0
FWA	Gen	st2	Freyberger	1.833333	Binder	6	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	Gen	st2	JapanCERI	2	Binder	3	0
FWA	Gen	st2	Lovelace	2	Binder	2	0
FWA	Gen	st2	Missouri	2	Binder	4	0
FWA	Gen	st3	Dietrich	1.5	Binder	4	0
FWA	GenW	st2	Missouri	2	Binder	4	0
FWA	Gen_b	st4	Ceetox	2	Binder	6	0
FWA	Gen_b	st4	Missouri	1.857143	Binder	7	0
FWA	HPTE	st3	Dietrich	2	Binder	1	0
FWA	HPTE	st4	Ceetox	2	Binder	6	0
FWA	HPTE	st4	Missouri	1.875	Binder	8	0
FWA	Heptylphenol	st12	Lovelace	2	Binder	1	0
FWA	Heptylphenol	st3	Ceetox	1.5	Binder	2	0
FWA	Heptylphenol	st3	Dietrich	2	Binder	3	0
FWA	Heptylphenol	st3	Freyberger	2	Binder	3	0
FWA	Heptylphenol	st3	JapanCERI	2	Binder	3	0
FWA	Heptylphenol	st3	Lovelace	2	Binder	2	0
FWA	Heptylphenol	st3	Missouri	0	Non-Binder	2	0
FWA	Hexestrol	st2	Ceetox	1.8	Binder	5	0
FWA	Hexestrol	st2	Dietrich	2	Binder	3	0
FWA	Hexestrol	st2	Freyberger	2	Binder	3	0
FWA	Hexestrol	st2	JapanCERI	2	Binder	3	0
FWA	Hexestrol	st2	Lovelace	2	Binder	2	0
FWA	Hexestrol	st2	Missouri	2	Binder	4	0
FWA	Hexestrol	st3	Dietrich	2	Binder	4	0
FWA	Kepone	st12	Lovelace	2	Binder	1	0
FWA	Kepone	st3	Ceetox	2	Binder	2	0
FWA	Kepone	st3	Dietrich	1.6	Binder	5	0
FWA	Kepone	st3	Freyberger	2	Binder	2	0
FWA	Kepone	st3	JapanCERI	2	Binder	2	0
FWA	Kepone	st3	Lovelace	2	Binder	2	0
FWA	Kepone	st3	Missouri	2	Binder	2	0
FWA	NE-TC	st3	Ceetox	2	Binder	2	0
FWA	NE-TC	st3	Dietrich	1.5	Binder	4	0
FWA	NE-TC	st3	Freyberger	2	Binder	3	0
FWA	NE-TC	st3	JapanCERI	2	Binder	3	0
FWA	NE-TC	st3	Lovelace	2	Binder	2	0
FWA	NE-TC	st3	Missouri	2	Binder	3	0
FWA	NPhenol	st2	Ceetox	1.8	Binder	5	0
FWA	NPhenol	st2	Dietrich	1.5	Binder	4	0

Protocol	Chemical	SubTask	Laboratory	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	NPhenol	st2	Freyberger	2	Binder	3	0
FWA	NPhenol	st2	JapanCERI	2	Binder	3	0
FWA	NPhenol	st2	Lovelace	2	Binder	1	0
FWA	NPhenol	st2	Missouri	2	Binder	4	0
FWA	NPhenol	st3	Dietrich	1.75	Binder	4	0
FWA	Nethdrone	st3	Dietrich	1.75	Binder	4	0
FWA	Nethdrone	st4	Ceetox	1.916667	Binder	12	0
FWA	Nethdrone	st4	Missouri	2	Binder	15	0
FWA	OTES	st3	Ceetox	0.5	Equivocal	2	0
FWA	OTES	st3	Dietrich	0	Non-Binder	1	0
FWA	OTES	st3	Freyberger	0	Non-Binder	3	0
FWA	OTES	st3	JapanCERI	0	Non-Binder	5	0
FWA	OTES	st3	Missouri	0	Non-Binder	3	0
FWA	OTES	st4	Ceetox	0	Non-Binder	6	0
FWA	OTES	st4	Missouri	0	Non-Binder	7	0
FWA	Progesterone	st12	Lovelace	2	Binder	1	0
FWA	Progesterone	st3	Ceetox	0.5	Equivocal	2	0
FWA	Progesterone	st3	Dietrich	0	Non-Binder	1	0
FWA	Progesterone	st3	Freyberger	0	Non-Binder	2	0
FWA	Progesterone	st3	JapanCERI	0.25	Non-Binder	4	0
FWA	Progesterone	st3	Lovelace	2	Binder	2	0
FWA	Progesterone	st3	Missouri	0	Non-Binder	3	0
FWA	Tamox	st3	Ceetox	2	Binder	2	0
FWA	Tamox	st3	Dietrich	1.75	Binder	4	0
FWA	Tamox	st3	Freyberger	2	Binder	2	0
FWA	Tamox	st3	JapanCERI	2	Binder	3	0
FWA	Tamox	st3	Lovelace	2	Binder	1	0
FWA	Tamox	st3	Missouri	2	Binder	3	0
FWA	Zear	st3	Ceetox	1.5	Binder	2	0
FWA	Zear	st3	Dietrich	2	Binder	1	0
FWA	Zear	st3	Freyberger	1.666667	Binder	3	0
FWA	Zear	st3	JapanCERI	2	Binder	4	0
FWA	Zear	st3	Lovelace	2	Binder	2	0
FWA	Zear	st3	Missouri	2	Binder	3	0

Table G-4. FWA, Test Chemical Binding Classifications within Each Laboratory, Based on Acceptable and Testable Runs. Binder (Avg=>1.5), Equivocal (0.5<=Avg <1.5), Non-Binder (Avg<0.5).

Protocol	Laboratory	Chemical	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	Ceetox	Atr	0.333333	Non-Binder	3	0
FWA	Ceetox	BPA	1.875	Binder	8	0
FWA	Ceetox	BaA_DMSO	0.666667	Equivocal	3	0
FWA	Ceetox	ButylPar	1.8	Binder	5	0
FWA	Ceetox	Cort	0	Non-Binder	5	0
FWA	Ceetox	Cort_b	0	Non-Binder	6	0
FWA	Ceetox	DBP	0.2	Non-Binder	15	0
FWA	Ceetox	DBP-TC	0.5	Equivocal	2	0
FWA	Ceetox	DDT	1.6	Binder	5	0
FWA	Ceetox	DES	2	Binder	5	0
FWA	Ceetox	DHT	2	Binder	2	0
FWA	Ceetox	Dex	0	Non-Binder	6	0
FWA	Ceetox	E2-TC	1.666667	Binder	3	0
FWA	Ceetox	EE2	1.75	Binder	4	0
FWA	Ceetox	ELactone	2	Binder	2	0
FWA	Ceetox	Equol	1.8	Binder	5	0
FWA	Ceetox	Gen	1.8	Binder	5	0
FWA	Ceetox	Gen_b	2	Binder	6	0
FWA	Ceetox	HPTE	2	Binder	6	0
FWA	Ceetox	Heptylphenol	1.5	Binder	2	0
FWA	Ceetox	Hexestrol	1.8	Binder	5	0
FWA	Ceetox	Kepone	2	Binder	2	0
FWA	Ceetox	NE-TC	2	Binder	2	0
FWA	Ceetox	NPhenol	1.8	Binder	5	0
FWA	Ceetox	Nethdrone	1.916667	Binder	12	0
FWA	Ceetox	OTES	0.125	Non-Binder	8	0
FWA	Ceetox	Progesterone	0.5	Equivocal	2	0
FWA	Ceetox	Tamox	2	Binder	2	0
FWA	Ceetox	Zear	1.5	Binder	2	0
FWA	Dietrich	Atr	0.75	Equivocal	4	0
FWA	Dietrich	BPA	2	Binder	1	0
FWA	Dietrich	BaA_Ethol	0.25	Non-Binder	4	0
FWA	Dietrich	ButylPar	1.4	Equivocal	5	0
FWA	Dietrich	Cort	1	Equivocal	4	0
FWA	Dietrich	Cort_b	0.25	Non-Binder	4	0
FWA	Dietrich	DBP	0.090909	Non-Binder	11	0
FWA	Dietrich	DBP-TC	1	Equivocal	1	0
FWA	Dietrich	DDT	1.555556	Binder	9	0
FWA	Dietrich	DES	1.625	Binder	8	0
FWA	Dietrich	DHT	1.75	Binder	4	0
FWA	Dietrich	Dex	0.75	Equivocal	4	0
FWA	Dietrich	E2-TC	1.75	Binder	4	0
FWA	Dietrich	EE2	1.444444	Equivocal	9	0
FWA	Dietrich	ELactone	2	Binder	1	0
FWA	Dietrich	Equol	1.75	Binder	4	0
FWA	Dietrich	Gen	1.714286	Binder	7	0
FWA	Dietrich	HPTE	2	Binder	1	0
FWA	Dietrich	Heptylphenol	2	Binder	3	0
FWA	Dietrich	Hexestrol	2	Binder	7	0
FWA	Dietrich	Kepone	1.6	Binder	5	0
FWA	Dietrich	NE-TC	1.5	Binder	4	0
FWA	Dietrich	NPhenol	1.625	Binder	8	0

Protocol	Laboratory	Chemical	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	Dietrich	Nethdrone	1.75	Binder	4	0
FWA	Dietrich	OTES	0	Non-Binder	1	0
FWA	Dietrich	Progesterone	0	Non-Binder	1	0
FWA	Dietrich	Tamox	1.75	Binder	4	0
FWA	Dietrich	Zear	2	Binder	1	0
FWA	Freyberger	Atr	0	Non-Binder	3	0
FWA	Freyberger	BPA	2	Binder	2	0
FWA	Freyberger	BaA_Ethol	0	Non-Binder	3	0
FWA	Freyberger	ButylPar	2	Binder	3	0
FWA	Freyberger	Cort	0	Non-Binder	6	0
FWA	Freyberger	DBP	0.090909	Non-Binder	11	0
FWA	Freyberger	DBP-TC	0.5	Equivocal	2	0
FWA	Freyberger	DDT	2	Binder	6	0
FWA	Freyberger	DES	2	Binder	3	0
FWA	Freyberger	DHT	2	Binder	3	0
FWA	Freyberger	E2-TC	1.333333	Equivocal	3	0
FWA	Freyberger	EE2	2	Binder	3	0
FWA	Freyberger	ELactone	1.5	Binder	2	0
FWA	Freyberger	Equol	2	Binder	3	0
FWA	Freyberger	Gen	1.833333	Binder	6	0
FWA	Freyberger	Heptylphenol	2	Binder	3	0
FWA	Freyberger	Hexestrol	2	Binder	3	0
FWA	Freyberger	Kepone	2	Binder	2	0
FWA	Freyberger	NE-TC	2	Binder	3	0
FWA	Freyberger	NPhenol	2	Binder	3	0
FWA	Freyberger	OTES	0	Non-Binder	3	0
FWA	Freyberger	Progesterone	0	Non-Binder	2	0
FWA	Freyberger	Tamox	2	Binder	2	0
FWA	Freyberger	Zear	1.666667	Binder	3	0
FWA	JapanCERI	Atr	0	Non-Binder	4	0
FWA	JapanCERI	BPA	2	Binder	3	0
FWA	JapanCERI	BaA_DMSO	0.25	Non-Binder	4	0
FWA	JapanCERI	ButylPar	2	Binder	3	0
FWA	JapanCERI	Cort	0	Non-Binder	3	0
FWA	JapanCERI	DBP	0	Non-Binder	16	0
FWA	JapanCERI	DBP-TC	1	Equivocal	2	0
FWA	JapanCERI	DDT	2	Binder	3	0
FWA	JapanCERI	DES	2	Binder	3	0
FWA	JapanCERI	DHT	2	Binder	2	0
FWA	JapanCERI	E2-TC	1.833333	Binder	6	0
FWA	JapanCERI	EE2	2	Binder	3	0
FWA	JapanCERI	ELactone	2	Binder	3	0
FWA	JapanCERI	Equol	2	Binder	3	0
FWA	JapanCERI	Gen	2	Binder	3	0
FWA	JapanCERI	Heptylphenol	2	Binder	3	0
FWA	JapanCERI	Hexestrol	2	Binder	3	0
FWA	JapanCERI	Kepone	2	Binder	2	0
FWA	JapanCERI	NE-TC	2	Binder	3	0
FWA	JapanCERI	NPhenol	2	Binder	3	0
FWA	JapanCERI	OTES	0	Non-Binder	5	0
FWA	JapanCERI	Progesterone	0.25	Non-Binder	4	0
FWA	JapanCERI	Tamox	2	Binder	3	0
FWA	JapanCERI	Zear	2	Binder	4	0
FWA	Lovelace	Atr	0	Non-Binder	1	0
FWA	Lovelace	BPA	2	Binder	1	0

Protocol	Laboratory	Chemical	Average vote	Binding Status	# of Testable runs	# of Non-Testable runs
FWA	Lovelace	ButylPar	2	Binder	2	0
FWA	Lovelace	Cort	2	Binder	1	0
FWA	Lovelace	DBP	0.125	Non-Binder	8	0
FWA	Lovelace	DBP-TC	1.5	Binder	2	0
FWA	Lovelace	DDT	2	Binder	1	0
FWA	Lovelace	DES	2	Binder	2	0
FWA	Lovelace	DHT	2	Binder	1	0
FWA	Lovelace	E2-TC	1.5	Binder	4	0
FWA	Lovelace	EE2	2	Binder	1	0
FWA	Lovelace	EE2_b	1.5	Binder	2	0
FWA	Lovelace	Equol	2	Binder	1	0
FWA	Lovelace	Gen	2	Binder	2	0
FWA	Lovelace	Heptylphenol	2	Binder	3	0
FWA	Lovelace	Hexestrol	2	Binder	2	0
FWA	Lovelace	Kepone	2	Binder	3	0
FWA	Lovelace	NE-TC	2	Binder	2	0
FWA	Lovelace	NPhenol	2	Binder	1	0
FWA	Lovelace	Progesterone	2	Binder	3	0
FWA	Lovelace	Tamox	2	Binder	1	0
FWA	Lovelace	Zear	2	Binder	2	0
FWA	Missouri	Atr	0	Non-Binder	3	0
FWA	Missouri	BPA	2	Binder	10	0
FWA	Missouri	BaA_DMSO	0	Non-Binder	2	0
FWA	Missouri	BaA_Ethol	0	Non-Binder	2	0
FWA	Missouri	ButylPar	2	Binder	4	0
FWA	Missouri	Cort	0	Non-Binder	4	0
FWA	Missouri	Cort_b	0.125	Non-Binder	8	0
FWA	Missouri	DBP	0	Non-Binder	25	0
FWA	Missouri	DBP-TC	0.666667	Equivocal	3	0
FWA	Missouri	DDT	2	Binder	4	0
FWA	Missouri	DES	2	Binder	4	0
FWA	Missouri	DHT	2	Binder	3	0
FWA	Missouri	Dex	0.125	Non-Binder	8	0
FWA	Missouri	E2-TC	2	Binder	3	0
FWA	Missouri	EE2	2	Binder	4	0
FWA	Missouri	ELactone	2	Binder	2	0
FWA	Missouri	Equol	2	Binder	4	0
FWA	Missouri	Gen	2	Binder	4	0
FWA	Missouri	GenW	2	Binder	4	0
FWA	Missouri	Gen_b	1.857143	Binder	7	0
FWA	Missouri	HPTE	1.875	Binder	8	0
FWA	Missouri	Heptylphenol	0	Non-Binder	2	0
FWA	Missouri	Hexestrol	2	Binder	4	0
FWA	Missouri	Kepone	2	Binder	2	0
FWA	Missouri	NE-TC	2	Binder	3	0
FWA	Missouri	NPhenol	2	Binder	4	0
FWA	Missouri	Nethdrone	2	Binder	15	0
FWA	Missouri	OTES	0	Non-Binder	10	0
FWA	Missouri	Progesterone	0	Non-Binder	3	0
FWA	Missouri	Tamox	2	Binder	3	0
FWA	Missouri	Zear	2	Binder	3	0

Table G-5. CERI, Test Chemical Binding Classifications by Individual Test Run, Based on Acceptable and Testable Runs. Binder (=2), Equivocal (=1), Non-Binder (=0).

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Ceetox	DBP	st1	20090207	0
CERI	Ceetox	DBP	st1	20090208	0
CERI	Ceetox	DBP	st1	20090211	0
CERI	Ceetox	DBP	st2	20090215	0
CERI	Ceetox	DBP	st2	20090221	0
CERI	Ceetox	DBP	st3	20090310A	0
CERI	Ceetox	DBP	st4	20090903A	0
CERI	Ceetox	DBP	st4	20090905A	0
CERI	Ceetox	DBP	st4	20090907A	0
CERI	Ceetox	DBP	st4	20090930A	0
CERI	Ceetox	ButylPar	st2	20090215	2
CERI	Ceetox	ButylPar	st2	20090221	2
CERI	Ceetox	Cort	st2	20090215	0
CERI	Ceetox	Cort	st2	20090221	0
CERI	Ceetox	Equol	st2	20090215	2
CERI	Ceetox	Equol	st2	20090221	2
CERI	Ceetox	Hexestrol	st2	20090215	2
CERI	Ceetox	Hexestrol	st2	20090221	2
CERI	Ceetox	NPhenol	st2	20090215	2
CERI	Ceetox	NPhenol	st2	20090221	1
CERI	Ceetox	DDT	st2	20090215	2
CERI	Ceetox	DDT	st2	20090221	2
CERI	Ceetox	DES	st2	20090215	2
CERI	Ceetox	DES	st2	20090221	2
CERI	Ceetox	Gen	st2	20090215	2
CERI	Ceetox	Gen	st2	20090221	2
CERI	Ceetox	E2-TC	st3	20090310A	2
CERI	Ceetox	NE-TC	st3	20090310A	2
CERI	Ceetox	DBP-TC	st3	20090310A	2
CERI	Ceetox	Zear	st3	20090310A	2
CERI	Ceetox	Tamox	st3	20090310A	2
CERI	Ceetox	DHT	st3	20090310A	2
CERI	Ceetox	BPA	st3	20090310A	2
CERI	Ceetox	Heptylphenol	st3	20090310A	2
CERI	Ceetox	Kepone	st3	20090310A	2
CERI	Ceetox	BaA	st3	20090310A	0
CERI	Ceetox	ELactone	st3	20090310A	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Ceetox	Progesterone	st3	20090310A	0
CERI	Ceetox	OTES	st3	20090310B	0
CERI	Ceetox	Atr	st3	20090310B	0
CERI	Ceetox	Cort-1	st4	20090903A	0
CERI	Ceetox	Cort-1	st4	20090905A	0
CERI	Ceetox	Cort-1	st4	20090907A	0
CERI	Ceetox	Cort-1	st4	20090930A	0
CERI	Ceetox	Dex-1	st4	20090903A	0
CERI	Ceetox	Dex-1	st4	20090905A	0
CERI	Ceetox	Dex-1	st4	20090907A	0
CERI	Ceetox	Dex-1	st4	20090930A	0
CERI	Ceetox	Nethdrone-1	st4	20090905A	2
CERI	Ceetox	Nethdrone-1	st4	20090907A	2
CERI	Ceetox	Nethdrone-1	st4	20090930A	2
CERI	Ceetox	HPTE-1	st4	20090903A	2
CERI	Ceetox	HPTE-1	st4	20090905A	2
CERI	Ceetox	HPTE-1	st4	20090907A	2
CERI	Ceetox	HPTE-1	st4	20090930A	2
CERI	Ceetox	Gen-1	st4	20090903A	2
CERI	Ceetox	Gen-1	st4	20090905A	2
CERI	Ceetox	Gen-1	st4	20090907A	2
CERI	Ceetox	Gen-1	st4	20090930A	2
CERI	Ceetox	BPA-1	st4	20090903A	2
CERI	Ceetox	BPA-1	st4	20090905A	2
CERI	Ceetox	BPA-1	st4	20090907A	2
CERI	Ceetox	BPA-1	st4	20090930A	2
CERI	Ceetox	OTES-1	st4	20090903A	0
CERI	Ceetox	OTES-1	st4	20090905A	0
CERI	Ceetox	OTES-1	st4	20090907A	0
CERI	Ceetox	OTES-1	st4	20090930A	0
CERI	Ceetox	Nethdrone-2	st4	20090903A	2
CERI	Ceetox	Nethdrone-2	st4	20090905A	2
CERI	Ceetox	Nethdrone-2	st4	20090907A	2
CERI	Ceetox	Nethdrone-2	st4	20090930A	2
CERI	Ceetox	BPA-2	st4	20090903A	2
CERI	Ceetox	BPA-2	st4	20090905A	2
CERI	Ceetox	BPA-2	st4	20090907A	2
CERI	Ceetox	BPA-2	st4	20090930A	2
CERI	Ceetox	Dex-2	st4	20090903A	0
CERI	Ceetox	Dex-2	st4	20090905A	1

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Ceetox	Dex-2	st4	20090907A	0
CERI	Ceetox	Dex-2	st4	20090930A	1
CERI	Ceetox	Nethdrone-3	st4	20090903A	2
CERI	Ceetox	Nethdrone-3	st4	20090905A	2
CERI	Ceetox	Nethdrone-3	st4	20090907A	2
CERI	Ceetox	Nethdrone-3	st4	20090930A	2
CERI	Ceetox	Cort-2	st4	20090903A	1
CERI	Ceetox	Cort-2	st4	20090905A	0
CERI	Ceetox	Cort-2	st4	20090907A	0
CERI	Ceetox	Cort-2	st4	20090930A	1
CERI	Ceetox	HPTE-2	st4	20090903B	2
CERI	Ceetox	HPTE-2	st4	20090905B	2
CERI	Ceetox	HPTE-2	st4	20090907B	2
CERI	Ceetox	HPTE-2	st4	20090930B	2
CERI	Ceetox	OTES-2	st4	20090903B	0
CERI	Ceetox	OTES-2	st4	20090905B	0
CERI	Ceetox	OTES-2	st4	20090907B	0
CERI	Ceetox	OTES-2	st4	20090930B	0
CERI	Ceetox	Nethdrone-4	st4	20090903B	2
CERI	Ceetox	Nethdrone-4	st4	20090905B	2
CERI	Ceetox	Nethdrone-4	st4	20090907B	2
CERI	Ceetox	Nethdrone-4	st4	20090930B	2
CERI	Ceetox	Gen-2	st4	20090903B	2
CERI	Ceetox	Gen-2	st4	20090905B	2
CERI	Ceetox	Gen-2	st4	20090907B	2
CERI	Ceetox	Gen-2	st4	20090930B	1
CERI	Ceetox	EE2	st2	20090215	2
CERI	Ceetox	EE2	st2	20090221	1
CERI	Ceetox	Nethdrone	st4	20090903A	2
CERI	Freyberger	DBP	st2	B	0
CERI	Freyberger	DBP	st2	C	0
CERI	Freyberger	DBP	st2	D	0
CERI	Freyberger	DBP	st2	E	0
CERI	Freyberger	DBP	st2	F	0
CERI	Freyberger	DBP	st2	G	0
CERI	Freyberger	DBP	st3	CODE A2	1
CERI	Freyberger	DBP	st3	CODE A3	0
CERI	Freyberger	DBP	st3	CODE B1	0
CERI	Freyberger	DBP	st3	CODE B2	1
CERI	Freyberger	DBP	st3	CODE B3	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Freyberger	DBP	st3	CODE C1	0
CERI	Freyberger	DBP	st3	CODE C2	0
CERI	Freyberger	DBP	st3	CODE C3	0
CERI	Freyberger	ButylPar	st2	B	2
CERI	Freyberger	ButylPar	st2	C	2
CERI	Freyberger	ButylPar	st2	D	2
CERI	Freyberger	Cort	st2	B	1
CERI	Freyberger	Cort	st2	C	0
CERI	Freyberger	Cort	st2	D	0
CERI	Freyberger	Equol	st2	B	2
CERI	Freyberger	Equol	st2	C	2
CERI	Freyberger	Equol	st2	D	2
CERI	Freyberger	Hexestrol	st2	B	2
CERI	Freyberger	Hexestrol	st2	C	2
CERI	Freyberger	Hexestrol	st2	D	2
CERI	Freyberger	NPhenol	st2	E	2
CERI	Freyberger	NPhenol	st2	F	2
CERI	Freyberger	NPhenol	st2	G	2
CERI	Freyberger	DDT	st2	E	2
CERI	Freyberger	DDT	st2	F	2
CERI	Freyberger	DDT	st2	G	2
CERI	Freyberger	DES	st2	E	2
CERI	Freyberger	DES	st2	F	2
CERI	Freyberger	DES	st2	G	2
CERI	Freyberger	Gen	st2	E	1
CERI	Freyberger	Gen	st2	F	1
CERI	Freyberger	Gen	st2	G	1
CERI	Freyberger	E2-TC	st3	CODE A2	2
CERI	Freyberger	E2-TC	st3	CODE A3	1
CERI	Freyberger	NE-TC	st3	CODE C1	2
CERI	Freyberger	NE-TC	st3	CODE C2	2
CERI	Freyberger	NE-TC	st3	CODE C3	2
CERI	Freyberger	DBP-TC	st3	CODE B1	2
CERI	Freyberger	DBP-TC	st3	CODE B2	2
CERI	Freyberger	DBP-TC	st3	CODE B3	2
CERI	Freyberger	Zear	st3	CODE B1	2
CERI	Freyberger	Zear	st3	CODE B2	2
CERI	Freyberger	Zear	st3	CODE B3	2
CERI	Freyberger	Tamox	st3	CODE A2	2
CERI	Freyberger	Tamox	st3	CODE A3	1

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Freyberger	DHT	st3	CODE B1	2
CERI	Freyberger	DHT	st3	CODE B2	2
CERI	Freyberger	DHT	st3	CODE B3	2
CERI	Freyberger	BPA	st3	CODE A2	2
CERI	Freyberger	BPA	st3	CODE A3	2
CERI	Freyberger	Heptylphenol	st3	CODE B1	2
CERI	Freyberger	Heptylphenol	st3	CODE B2	2
CERI	Freyberger	Heptylphenol	st3	CODE B3	2
CERI	Freyberger	Kepone	st3	CODE A2	2
CERI	Freyberger	Kepone	st3	CODE A3	2
CERI	Freyberger	BaA	st3	CODE C1	0
CERI	Freyberger	BaA	st3	CODE C2	0
CERI	Freyberger	BaA	st3	CODE C3	0
CERI	Freyberger	ELactone	st3	CODE A2	2
CERI	Freyberger	ELactone	st3	CODE A3	2
CERI	Freyberger	Progesterone	st3	CODE C1	0
CERI	Freyberger	Progesterone	st3	CODE C2	0
CERI	Freyberger	Progesterone	st3	CODE C3	0
CERI	Freyberger	OTES	st3	CODE B1	0
CERI	Freyberger	OTES	st3	CODE B2	0
CERI	Freyberger	OTES	st3	CODE B3	0
CERI	Freyberger	Atr	st3	CODE C1	0
CERI	Freyberger	Atr	st3	CODE C2	0
CERI	Freyberger	Atr	st3	CODE C3	0
CERI	Freyberger	EE2	st2	E	2
CERI	Freyberger	EE2	st2	F	2
CERI	Freyberger	EE2	st2	G	2
CERI	JapanCERI	DBP	st1	91224	0
CERI	JapanCERI	DBP	st1	100107	0
CERI	JapanCERI	DBP	st1	100108	0
CERI	JapanCERI	DBP	st2	100119	0
CERI	JapanCERI	DBP	st2	100126	0
CERI	JapanCERI	DBP	st2	100129	0
CERI	JapanCERI	DBP	st3	100203	0
CERI	JapanCERI	DBP	st3	100208	0
CERI	JapanCERI	DBP	st3	100215	0
CERI	JapanCERI	DBP	st3	100223	0
CERI	JapanCERI	DBP	st3	100224	0
CERI	JapanCERI	DBP	st3	100225	0
CERI	JapanCERI	DBP	st3	100226	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	JapanCERI	DBP	st3	100301	0
CERI	JapanCERI	DBP	st3	100303	0
CERI	JapanCERI	DBP	st3	100305	0
CERI	JapanCERI	ButylPar	st2	100119	2
CERI	JapanCERI	ButylPar	st2	100126	2
CERI	JapanCERI	ButylPar	st2	100129	2
CERI	JapanCERI	Cort	st2	100119	0
CERI	JapanCERI	Cort	st2	100126	0
CERI	JapanCERI	Cort	st2	100129	0
CERI	JapanCERI	Equol	st2	100119	2
CERI	JapanCERI	Equol	st2	100126	2
CERI	JapanCERI	Equol	st2	100129	2
CERI	JapanCERI	Hexestrol	st2	100119	2
CERI	JapanCERI	Hexestrol	st2	100126	2
CERI	JapanCERI	Hexestrol	st2	100129	2
CERI	JapanCERI	NPhenol	st2	100119	2
CERI	JapanCERI	NPhenol	st2	100126	2
CERI	JapanCERI	NPhenol	st2	100129	2
CERI	JapanCERI	DDT	st2	100119	2
CERI	JapanCERI	DDT	st2	100126	2
CERI	JapanCERI	DDT	st2	100129	2
CERI	JapanCERI	DES	st2	100119	2
CERI	JapanCERI	DES	st2	100126	2
CERI	JapanCERI	DES	st2	100129	2
CERI	JapanCERI	Gen	st2	100119	2
CERI	JapanCERI	Gen	st2	100126	2
CERI	JapanCERI	Gen	st2	100129	1
CERI	JapanCERI	E2-TC	st3	100223	2
CERI	JapanCERI	E2-TC	st3	100224	2
CERI	JapanCERI	E2-TC	st3	100225	2
CERI	JapanCERI	NE-TC	st3	100223	2
CERI	JapanCERI	NE-TC	st3	100224	2
CERI	JapanCERI	NE-TC	st3	100225	2
CERI	JapanCERI	DBP-TC	st3	100203	0
CERI	JapanCERI	DBP-TC	st3	100208	0
CERI	JapanCERI	DBP-TC	st3	100215	0
CERI	JapanCERI	Zear	st3	100203	2
CERI	JapanCERI	Zear	st3	100208	2
CERI	JapanCERI	Zear	st3	100215	2
CERI	JapanCERI	Tamox	st3	100203	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	JapanCERI	Tamox	st3	100208	2
CERI	JapanCERI	Tamox	st3	100215	2
CERI	JapanCERI	DHT	st3	100203	2
CERI	JapanCERI	DHT	st3	100208	2
CERI	JapanCERI	DHT	st3	100215	2
CERI	JapanCERI	BPA	st3	100203	2
CERI	JapanCERI	BPA	st3	100208	2
CERI	JapanCERI	BPA	st3	100215	2
CERI	JapanCERI	BPA	st3	100226	2
CERI	JapanCERI	Heptylphenol	st3	100223	1
CERI	JapanCERI	Heptylphenol	st3	100224	1
CERI	JapanCERI	Heptylphenol	st3	100225	1
CERI	JapanCERI	Heptylphenol	st3	100226	1
CERI	JapanCERI	Kepone	st3	100203	2
CERI	JapanCERI	Kepone	st3	100208	2
CERI	JapanCERI	Kepone	st3	100215	2
CERI	JapanCERI	BaA	st3	100203	0
CERI	JapanCERI	BaA	st3	100208	0
CERI	JapanCERI	BaA	st3	100215	0
CERI	JapanCERI	ELactone	st3	100223	1
CERI	JapanCERI	ELactone	st3	100224	1
CERI	JapanCERI	ELactone	st3	100225	1
CERI	JapanCERI	Progesterone	st3	100203	0
CERI	JapanCERI	Progesterone	st3	100208	0
CERI	JapanCERI	Progesterone	st3	100215	0
CERI	JapanCERI	Progesterone	st3	100226	0
CERI	JapanCERI	OTES	st3	100301	0
CERI	JapanCERI	OTES	st3	100303	0
CERI	JapanCERI	OTES	st3	100305	0
CERI	JapanCERI	Atr	st3	100223	0
CERI	JapanCERI	Atr	st3	100224	0
CERI	JapanCERI	Atr	st3	100225	0
CERI	JapanCERI	EE2	st2	100119	2
CERI	JapanCERI	EE2	st2	100126	2
CERI	JapanCERI	EE2	st2	100129	2
CERI	Lovelace	DBP	st1	13-Jan-09	0
CERI	Lovelace	DBP	st1	16-Jan-09	0
CERI	Lovelace	DBP	st12	12-Nov-09	1
CERI	Lovelace	DBP	st12	23-Sep-09	0
CERI	Lovelace	DBP	st12	7-Apr-10 #1	1

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Lovelace	DBP	st12	7-Apr-10 #2	1
CERI	Lovelace	DBP	st12	7-Apr-10 #3	1
CERI	Lovelace	DBP	st2	4-May-09	0
CERI	Lovelace	DBP	st2	5-May-09	1
CERI	Lovelace	DBP	st2	6-May-09	0
CERI	Lovelace	DBP	st2	8-May-09	0
CERI	Lovelace	DBP	st2	26-Feb-09	2
CERI	Lovelace	DBP	st2	27-Feb-09	1
CERI	Lovelace	DBP	st3	1-Jun-09	0
CERI	Lovelace	DBP	st3	4-Jun-09	0
CERI	Lovelace	DBP	st3	8-Jun-09	0
CERI	Lovelace	DBP	st3	10-Jul-09	0
CERI	Lovelace	DBP	st3	10-Jun-09	1
CERI	Lovelace	DBP	st3	11-Jun-09	1
CERI	Lovelace	DBP	st3	15-Jun-09	1
CERI	Lovelace	ButylPar	st2	2/26/2009	0
CERI	Lovelace	ButylPar	st2	2-27-2009T	2
CERI	Lovelace	ButylPar	st2	5/8/2009	2
CERI	Lovelace	Cort	st2	2/26/2009	0
CERI	Lovelace	Cort	st2	2-27-2009T	0
CERI	Lovelace	Cort	st2	5/5/2009	2
CERI	Lovelace	Cort	st2	5-6-2009T	1
CERI	Lovelace	Equol	st2	2/26/2009	0
CERI	Lovelace	Equol	st2	2-27-2009T	1
CERI	Lovelace	Equol	st2	5/5/2009	2
CERI	Lovelace	Equol	st2	5-6-2009T	1
CERI	Lovelace	Hexestrol	st2	2/26/2009	1
CERI	Lovelace	Hexestrol	st2	2-27-2009T	1
CERI	Lovelace	Hexestrol	st2	5/4/2009	2
CERI	Lovelace	Hexestrol	st2	5/5/2009	1
CERI	Lovelace	Hexestrol	st2	5-6-2009T	2
CERI	Lovelace	NPhenol	st2	2/26/2009	1
CERI	Lovelace	NPhenol	st2	2-27-2009T	2
CERI	Lovelace	DDT	st2	2/26/2009	0
CERI	Lovelace	DDT	st2	2-27-2009T	2
CERI	Lovelace	DDT	st2	5/5/2009	2
CERI	Lovelace	DES	st2	2/26/2009	0
CERI	Lovelace	DES	st2	2-27-2009T	2
CERI	Lovelace	DES	st2	5/4/2009	2
CERI	Lovelace	DES	st2	5/5/2009	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Lovelace	DES	st2	5-6-2009T	2
CERI	Lovelace	Gen	st2	2/26/2009	1
CERI	Lovelace	Gen	st2	2-27-2009T	1
CERI	Lovelace	E2-TC	st12	11/12/2009	2
CERI	Lovelace	E2-TC	st12	4/7/2010	1
CERI	Lovelace	E2-TC	st12	4-7-2010_2	1
CERI	Lovelace	E2-TC	st12	4-7-2010_3	1
CERI	Lovelace	E2-TC	st12	9/23/2009	2
CERI	Lovelace	E2-TC	st3	6/1/2009	1
CERI	Lovelace	E2-TC	st3	6/4/2009	1
CERI	Lovelace	E2-TC	st3	6/8/2009	1
CERI	Lovelace	E2-TC	st3	7/10/2009	2
CERI	Lovelace	DBP-TC	st12	11/12/2009	2
CERI	Lovelace	DBP-TC	st12	4/7/2010	1
CERI	Lovelace	DBP-TC	st12	4-7-2010_2	2
CERI	Lovelace	DBP-TC	st12	4-7-2010_3	2
CERI	Lovelace	DBP-TC	st12	9/23/2009	2
CERI	Lovelace	DBP-TC	st3	6/10/2009	1
CERI	Lovelace	DBP-TC	st3	6-11-2009T	2
CERI	Lovelace	DBP-TC	st3	7/10/2009	1
CERI	Lovelace	Zear	st3	6/1/2009	2
CERI	Lovelace	Zear	st3	6/4/2009	2
CERI	Lovelace	Zear	st3	6/8/2009	2
CERI	Lovelace	Tamox	st3	6/10/2009	2
CERI	Lovelace	Tamox	st3	6-11-2009T	2
CERI	Lovelace	Tamox	st3	7/10/2009	2
CERI	Lovelace	DHT	st3	6/10/2009	2
CERI	Lovelace	DHT	st3	6-11-2009T	1
CERI	Lovelace	DHT	st3	7/10/2009	2
CERI	Lovelace	BPA	st3	6/1/2009	2
CERI	Lovelace	BPA	st3	6/4/2009	2
CERI	Lovelace	BPA	st3	6/8/2009	2
CERI	Lovelace	Heptylphenol	st3	6/10/2009	1
CERI	Lovelace	Heptylphenol	st3	6/4/2009	1
CERI	Lovelace	Heptylphenol	st3	6/8/2009	1
CERI	Lovelace	Kepone	st3	6/4/2009	2
CERI	Lovelace	Kepone	st3	6/8/2009	2
CERI	Lovelace	BaA	st3	6-11-2009T	0
CERI	Lovelace	BaA	st3	6/15/2009	0
CERI	Lovelace	BaA	st3	7/10/2009	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Lovelace	ELactone	st3	6/4/2009	1
CERI	Lovelace	ELactone	st3	6/8/2009	2
CERI	Lovelace	Progesterone	st3	6/4/2009	0
CERI	Lovelace	Progesterone	st3	6/8/2009	0
CERI	Lovelace	OTES	st3	6/10/2009	0
CERI	Lovelace	OTES	st3	6-11-2009T	0
CERI	Lovelace	Atr	st3	6-11-2009T	1
CERI	Lovelace	Atr	st3	6/15/2009	1
CERI	Lovelace	EE2	st12	11/12/2009	2
CERI	Lovelace	EE2	st12	4/7/2010	1
CERI	Lovelace	EE2	st12	4-7-2010_2	1
CERI	Lovelace	EE2	st12	4-7-2010_3	1
CERI	Lovelace	EE2	st12	9/23/2009	1
CERI	Lovelace	EE2	st2	2/26/2009	1
CERI	Lovelace	EE2	st2	2-27-2009T	1
CERI	Lovelace	EE2	st2	5/4/2009	1
CERI	Lovelace	EE2	st2	5/5/2009	1
CERI	Lovelace	EE2	st2	5-6-2009T	1
CERI	Lovelace	EE2	st3	7/10/2009	2
CERI	Lovelace	NE-TC	st3	6/1/2009	2
CERI	Lovelace	NE-TC	st3	6/4/2009	2
CERI	Lovelace	NE-TC	st3	6/8/2009	2
CERI	Missouri	DBP	st1	4001	0
CERI	Missouri	DBP	st1	4001 2m	0
CERI	Missouri	DBP	st1	4002	0
CERI	Missouri	DBP	st1	4003	0
CERI	Missouri	DBP	st1	4005	0
CERI	Missouri	DBP	st1	4006	0
CERI	Missouri	DBP	st1	4007	0
CERI	Missouri	DBP	st1	5003	0
CERI	Missouri	DBP	st1	5007	0
CERI	Missouri	DBP	st1	5010	0
CERI	Missouri	DBP	st2	5006	1
CERI	Missouri	DBP	st2	5008	0
CERI	Missouri	DBP	st2	5009	0
CERI	Missouri	DBP	st3	6005	0
CERI	Missouri	DBP	st3	6006	0
CERI	Missouri	DBP	st3	6007	0
CERI	Missouri	DBP	st3	6009	0
CERI	Missouri	DBP	st3	6010	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Missouri	DBP	st3	6011	0
CERI	Missouri	DBP	st3	6502	0
CERI	Missouri	DBP	st3	6503	0
CERI	Missouri	DBP	st3	6504	0
CERI	Missouri	DBP	st4	2206	1
CERI	Missouri	DBP	st4	2210	0
CERI	Missouri	DBP	st4	2211	0
CERI	Missouri	DBP	st4	2301	0
CERI	Missouri	DBP	st4	2302	0
CERI	Missouri	DBP	st4	2305	0
CERI	Missouri	ButylPar	st2	5006	2
CERI	Missouri	ButylPar	st2	5008	2
CERI	Missouri	ButylPar	st2	5009	2
CERI	Missouri	Cort	st2	5006	1
CERI	Missouri	Cort	st2	5008	0
CERI	Missouri	Cort	st2	5009	0
CERI	Missouri	Equol	st2	5006	2
CERI	Missouri	Equol	st2	5008	2
CERI	Missouri	Equol	st2	5009	2
CERI	Missouri	Hexestrol	st2	5006	2
CERI	Missouri	Hexestrol	st2	5008	2
CERI	Missouri	Hexestrol	st2	5009	2
CERI	Missouri	NPhenol	st2	5006	2
CERI	Missouri	NPhenol	st2	5008	2
CERI	Missouri	NPhenol	st2	5009	2
CERI	Missouri	DDT	st2	5006	2
CERI	Missouri	DDT	st2	5008	2
CERI	Missouri	DDT	st2	5009	2
CERI	Missouri	DES	st2	5006	2
CERI	Missouri	DES	st2	5008	2
CERI	Missouri	DES	st2	5009	2
CERI	Missouri	Gen	st2	5006	2
CERI	Missouri	Gen	st2	5008	2
CERI	Missouri	Gen	st2	5009	1
CERI	Missouri	E2-TC	st3	6005	2
CERI	Missouri	E2-TC	st3	6006	1
CERI	Missouri	E2-TC	st3	6007	1
CERI	Missouri	NE-TC	st3	6005	2
CERI	Missouri	NE-TC	st3	6006	2
CERI	Missouri	NE-TC	st3	6007	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Missouri	DBP-TC	st3	6005	0
CERI	Missouri	DBP-TC	st3	6006	0
CERI	Missouri	DBP-TC	st3	6007	0
CERI	Missouri	Zear	st3	6005	2
CERI	Missouri	Zear	st3	6006	2
CERI	Missouri	Zear	st3	6007	2
CERI	Missouri	Tamox	st3	6005	2
CERI	Missouri	Tamox	st3	6006	2
CERI	Missouri	Tamox	st3	6007	1
CERI	Missouri	DHT	st3	6005	2
CERI	Missouri	DHT	st3	6006	1
CERI	Missouri	DHT	st3	6007	1
CERI	Missouri	BPA	st3	6005	2
CERI	Missouri	BPA	st3	6006	2
CERI	Missouri	BPA	st3	6007	2
CERI	Missouri	Heptylphenol	st3	6009	1
CERI	Missouri	Heptylphenol	st3	6010	2
CERI	Missouri	Heptylphenol	st3	6011	0
CERI	Missouri	Heptylphenol	st3	6502	1
CERI	Missouri	Heptylphenol	st3	6503	1
CERI	Missouri	Heptylphenol	st3	6504	1
CERI	Missouri	Kepone	st3	6009	2
CERI	Missouri	Kepone	st3	6010	2
CERI	Missouri	Kepone	st3	6011	2
CERI	Missouri	Kepone	st3	6502	2
CERI	Missouri	Kepone	st3	6503	2
CERI	Missouri	Kepone	st3	6504	2
CERI	Missouri	BaA	st3	6009	0
CERI	Missouri	BaA	st3	6010	0
CERI	Missouri	BaA	st3	6011	0
CERI	Missouri	BaA	st3	6502	0
CERI	Missouri	BaA	st3	6503	0
CERI	Missouri	BaA	st3	6504	0
CERI	Missouri	ELactone	st3	6009	1
CERI	Missouri	ELactone	st3	6010	1
CERI	Missouri	ELactone	st3	6011	0
CERI	Missouri	ELactone	st3	6502	0
CERI	Missouri	ELactone	st3	6503	1
CERI	Missouri	ELactone	st3	6504	1
CERI	Missouri	Progesterone	st3	6009	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Missouri	Progesterone	st3	6010	0
CERI	Missouri	Progesterone	st3	6011	0
CERI	Missouri	Progesterone	st3	6502	0
CERI	Missouri	Progesterone	st3	6503	0
CERI	Missouri	Progesterone	st3	6504	0
CERI	Missouri	OTES	st3	6009	0
CERI	Missouri	OTES	st3	6010	0
CERI	Missouri	OTES	st3	6011	0
CERI	Missouri	OTES	st3	6502	0
CERI	Missouri	OTES	st3	6503	0
CERI	Missouri	OTES	st3	6504	0
CERI	Missouri	Atr	st3	6009	0
CERI	Missouri	Atr	st3	6010	0
CERI	Missouri	Atr	st3	6011	0
CERI	Missouri	Atr	st3	6502	0
CERI	Missouri	Atr	st3	6503	0
CERI	Missouri	Atr	st3	6504	0
CERI	Missouri	Cort-1	st4	2206	0
CERI	Missouri	Cort-1	st4	2210	0
CERI	Missouri	Cort-1	st4	2211	0
CERI	Missouri	Dex-1	st4	2206	0
CERI	Missouri	Dex-1	st4	2210	1
CERI	Missouri	Dex-1	st4	2211	0
CERI	Missouri	Nethdrone-1	st4	2206	2
CERI	Missouri	Nethdrone-1	st4	2210	2
CERI	Missouri	Nethdrone-1	st4	2211	2
CERI	Missouri	HPTE-1	st4	2206	2
CERI	Missouri	HPTE-1	st4	2210	2
CERI	Missouri	HPTE-1	st4	2211	2
CERI	Missouri	Gen-1	st4	2206	1
CERI	Missouri	Gen-1	st4	2210	2
CERI	Missouri	Gen-1	st4	2211	1
CERI	Missouri	BPA-1	st4	2206	1
CERI	Missouri	BPA-1	st4	2210	2
CERI	Missouri	BPA-1	st4	2211	2
CERI	Missouri	OTES-1	st4	2206	0
CERI	Missouri	OTES-1	st4	2210	0
CERI	Missouri	OTES-1	st4	2211	0
CERI	Missouri	Nethdrone-2	st4	2206	2
CERI	Missouri	Nethdrone-2	st4	2210	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
CERI	Missouri	Nethdrone-2	st4	2211	2
CERI	Missouri	BPA-2	st4	2301	2
CERI	Missouri	BPA-2	st4	2302	2
CERI	Missouri	BPA-2	st4	2305	1
CERI	Missouri	Dex-2	st4	2301	1
CERI	Missouri	Dex-2	st4	2302	0
CERI	Missouri	Dex-2	st4	2305	0
CERI	Missouri	Nethdrone-3	st4	2301	1
CERI	Missouri	Nethdrone-3	st4	2302	2
CERI	Missouri	Nethdrone-3	st4	2305	1
CERI	Missouri	Cort-2	st4	2301	0
CERI	Missouri	Cort-2	st4	2302	0
CERI	Missouri	Cort-2	st4	2305	0
CERI	Missouri	HPTE-2	st4	2301	2
CERI	Missouri	HPTE-2	st4	2302	2
CERI	Missouri	HPTE-2	st4	2305	1
CERI	Missouri	OTES-2	st4	2301	1
CERI	Missouri	OTES-2	st4	2302	0
CERI	Missouri	OTES-2	st4	2305	1
CERI	Missouri	Nethdrone-4	st4	2301	2
CERI	Missouri	Nethdrone-4	st4	2302	2
CERI	Missouri	Nethdrone-4	st4	2305	1
CERI	Missouri	Gen-2	st4	2301	1
CERI	Missouri	Gen-2	st4	2302	1
CERI	Missouri	Gen-2	st4	2305	1
CERI	Missouri	EE2	st2	5006	2
CERI	Missouri	EE2	st2	5008	2
CERI	Missouri	EE2	st2	5009	2

Table G-6. FWA, Test Chemical Binding Classifications by Individual Test Run, Based on Acceptable and Testable Runs. Binder (=2), Equivocal (=1), Non-Binder (=0).

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Ceetox	st3	Atr	20090418B	0
FWA	Ceetox	st3	Atr	20090505chem14	0
FWA	Ceetox	st3	Atr	20090418B	1
FWA	Ceetox	st3	BPA	20090505	2
FWA	Ceetox	st3	BPA	20090418	2
FWA	Ceetox	st4	BPA	20090914	2
FWA	Ceetox	st4	BPA	20090911A	2
FWA	Ceetox	st4	BPA	20090914	1
FWA	Ceetox	st4	BPA	20090917A	2
FWA	Ceetox	st4	BPA	20090911A	2
FWA	Ceetox	st4	BPA	20090917A	2
FWA	Ceetox	st3	BaA_DMSO	20090514DMSO	0
FWA	Ceetox	st3	BaA_DMSO	20090505DMSO	1
FWA	Ceetox	st3	BaA_DMSO	20090418DMSO	1
FWA	Ceetox	st2	ButylPar	20090307	2
FWA	Ceetox	st2	ButylPar	20090124	1
FWA	Ceetox	st2	ButylPar	20090326	2
FWA	Ceetox	st2	ButylPar	20090202	2
FWA	Ceetox	st2	ButylPar	20090223	2
FWA	Ceetox	st2	Cort	20090326	0
FWA	Ceetox	st2	Cort	20090223	0
FWA	Ceetox	st2	Cort	20090124	0
FWA	Ceetox	st2	Cort	20090307	0
FWA	Ceetox	st2	Cort	20090202	0
FWA	Ceetox	st4	Cort_b	20090914	0
FWA	Ceetox	st4	Cort_b	20090914	0
FWA	Ceetox	st4	Cort_b	20090911A	0
FWA	Ceetox	st4	Cort_b	20090917A	0
FWA	Ceetox	st4	Cort_b	20090911A	0
FWA	Ceetox	st4	Cort_b	20090917A	0
FWA	Ceetox	st1	DBP	Run20081123	0
FWA	Ceetox	st1	DBP	Run20081218	1
FWA	Ceetox	st2	DBP	Run20090124	1
FWA	Ceetox	st2	DBP	Run20090223	0
FWA	Ceetox	st2	DBP	Run20090326	0
FWA	Ceetox	st2	DBP	Run20090202	1
FWA	Ceetox	st2	DBP	Run20090307	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Ceetox	st3	DBP	Run20090505 DMSO	0
FWA	Ceetox	st3	DBP	Run20090418	0
FWA	Ceetox	st3	DBP	Run20090514 DMSO	0
FWA	Ceetox	st3	DBP	Run20090418 DMSO	0
FWA	Ceetox	st3	DBP	Run20090505	0
FWA	Ceetox	st4	DBP	Run20090911A	0
FWA	Ceetox	st4	DBP	Run20090917A	0
FWA	Ceetox	st4	DBP	Run20090914A	0
FWA	Ceetox	st3	DBP-TC	20090418	0
FWA	Ceetox	st3	DBP-TC	20090505	1
FWA	Ceetox	st2	DDT	20090223	2
FWA	Ceetox	st2	DDT	20090124	1
FWA	Ceetox	st2	DDT	20090202	1
FWA	Ceetox	st2	DDT	20090307	2
FWA	Ceetox	st2	DDT	20090326	2
FWA	Ceetox	st2	DES	20090326	2
FWA	Ceetox	st2	DES	20090307	2
FWA	Ceetox	st2	DES	20090223	2
FWA	Ceetox	st2	DES	20090202	2
FWA	Ceetox	st2	DES	20090124	2
FWA	Ceetox	st3	DHT	20090505	2
FWA	Ceetox	st3	DHT	20090418	2
FWA	Ceetox	st4	Dex	20090911A	0
FWA	Ceetox	st4	Dex	20090917A	0
FWA	Ceetox	st4	Dex	20090914	0
FWA	Ceetox	st4	Dex	20090911A	0
FWA	Ceetox	st4	Dex	20090914	0
FWA	Ceetox	st4	Dex	20090917A	0
FWA	Ceetox	st2	E2-TC	20090124	1
FWA	Ceetox	st3	E2-TC	20090505	2
FWA	Ceetox	st3	E2-TC	20090418	2
FWA	Ceetox	st2	EE2	20090307	2
FWA	Ceetox	st2	EE2	20090326	2
FWA	Ceetox	st2	EE2	20090202	1
FWA	Ceetox	st2	EE2	20090223	2
FWA	Ceetox	st3	ELactone	20090505	2
FWA	Ceetox	st3	ELactone	20090418	2
FWA	Ceetox	st2	Equol	20090326	2
FWA	Ceetox	st2	Equol	20090124	1
FWA	Ceetox	st2	Equol	20090223	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Ceetox	st2	Equol	20090202	2
FWA	Ceetox	st2	Equol	20090307	2
FWA	Ceetox	st2	Gen	20090202	2
FWA	Ceetox	st2	Gen	20090307	2
FWA	Ceetox	st2	Gen	20090223	2
FWA	Ceetox	st2	Gen	20090124	1
FWA	Ceetox	st2	Gen	20090326	2
FWA	Ceetox	st4	Gen_b	20090914	2
FWA	Ceetox	st4	Gen_b	20090917A	2
FWA	Ceetox	st4	Gen_b	20090911B	2
FWA	Ceetox	st4	Gen_b	20090914B	2
FWA	Ceetox	st4	Gen_b	20090911A	2
FWA	Ceetox	st4	Gen_b	20090917B	2
FWA	Ceetox	st4	HPTE	20090911A	2
FWA	Ceetox	st4	HPTE	20090917A	2
FWA	Ceetox	st4	HPTE	20090917B	2
FWA	Ceetox	st4	HPTE	20090914B	2
FWA	Ceetox	st4	HPTE	20090914	2
FWA	Ceetox	st4	HPTE	20090911A	2
FWA	Ceetox	st3	Heptylphenol	20090505	2
FWA	Ceetox	st3	Heptylphenol	20090418	1
FWA	Ceetox	st2	Hexestrol	20090307	2
FWA	Ceetox	st2	Hexestrol	20090202	2
FWA	Ceetox	st2	Hexestrol	20090124	1
FWA	Ceetox	st2	Hexestrol	20090326	2
FWA	Ceetox	st2	Hexestrol	20090223	2
FWA	Ceetox	st3	Kepone	20090418	2
FWA	Ceetox	st3	Kepone	20090505	2
FWA	Ceetox	st3	NE-TC	20090505	2
FWA	Ceetox	st3	NE-TC	20090418	2
FWA	Ceetox	st2	NPhenol	20090307	2
FWA	Ceetox	st2	NPhenol	20090326	2
FWA	Ceetox	st2	NPhenol	20090223	2
FWA	Ceetox	st2	NPhenol	20090124	1
FWA	Ceetox	st2	NPhenol	20090202	2
FWA	Ceetox	st4	Nethdrone	20090911A	2
FWA	Ceetox	st4	Nethdrone	20090914	2
FWA	Ceetox	st4	Nethdrone	20090914	2
FWA	Ceetox	st4	Nethdrone	20090917B	2
FWA	Ceetox	st4	Nethdrone	20090911A	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Ceetox	st4	Nethdrone	20090911B	2
FWA	Ceetox	st4	Nethdrone	20090911A	2
FWA	Ceetox	st4	Nethdrone	20090917A	2
FWA	Ceetox	st4	Nethdrone	20090914B	2
FWA	Ceetox	st4	Nethdrone	20090917A	2
FWA	Ceetox	st4	Nethdrone	20090914	2
FWA	Ceetox	st4	Nethdrone	20090917A	1
FWA	Ceetox	st3	OTES	20090505	0
FWA	Ceetox	st3	OTES	20090418	1
FWA	Ceetox	st4	OTES	20090914	0
FWA	Ceetox	st4	OTES	20090911B	0
FWA	Ceetox	st4	OTES	20090911A	0
FWA	Ceetox	st4	OTES	20090917A	0
FWA	Ceetox	st4	OTES	20090914B	0
FWA	Ceetox	st4	OTES	20090917B	0
FWA	Ceetox	st3	Progesterone	20090418	1
FWA	Ceetox	st3	Progesterone	20090505	0
FWA	Ceetox	st3	Tamox	20090505	2
FWA	Ceetox	st3	Tamox	20090418	2
FWA	Ceetox	st3	Zear	20090505	2
FWA	Ceetox	st3	Zear	20090418	1
FWA	Dietrich	st3	Atr	Assay14_1	0
FWA	Dietrich	st3	Atr	Assay10_1	1
FWA	Dietrich	st3	Atr	Assay12_1	1
FWA	Dietrich	st3	Atr	Assay13	1
FWA	Dietrich	st3	BPA	Assay09	2
FWA	Dietrich	st3	BaA_Ethol	Assay11	0
FWA	Dietrich	st3	BaA_Ethol	Assay10_1	1
FWA	Dietrich	st3	BaA_Ethol	Assay12_1	0
FWA	Dietrich	st3	BaA_Ethol	Assay13	0
FWA	Dietrich	st2	ButylPar	Assay04	1
FWA	Dietrich	st2	ButylPar	Assay06	1
FWA	Dietrich	st2	ButylPar	Assay16	2
FWA	Dietrich	st2	ButylPar	Assay05	1
FWA	Dietrich	st3	ButylPar	Assay09	2
FWA	Dietrich	st2	Cort	Assay05	1
FWA	Dietrich	st2	Cort	Assay04	1
FWA	Dietrich	st2	Cort	Assay16	1
FWA	Dietrich	st2	Cort	Assay06	1
FWA	Dietrich	st3	Cort_b	Assay10_1	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Dietrich	st3	Cort_b	Assay13	0
FWA	Dietrich	st3	Cort_b	Assay11	0
FWA	Dietrich	st3	Cort_b	Assay12_1	1
FWA	Dietrich	st1	DBP	Assay03	1
FWA	Dietrich	st2	DBP	Assay06	0
FWA	Dietrich	st2	DBP	Assay04	0
FWA	Dietrich	st2	DBP	Assay05	0
FWA	Dietrich	st3	DBP	Assay12_1	0
FWA	Dietrich	st3	DBP	Assay11	0
FWA	Dietrich	st3	DBP	Assay09	0
FWA	Dietrich	st3	DBP	Assay13	0
FWA	Dietrich	st3	DBP	Assay15	0
FWA	Dietrich	st3	DBP	Assay14_1	0
FWA	Dietrich	st3	DBP	Assay10_1	0
FWA	Dietrich	st3	DBP-TC	Assay09	1
FWA	Dietrich	st2	DDT	Assay06	1
FWA	Dietrich	st2	DDT	Assay05	1
FWA	Dietrich	st2	DDT	Assay04	1
FWA	Dietrich	st2	DDT	Assay16	2
FWA	Dietrich	st3	DDT	Assay12_2	2
FWA	Dietrich	st3	DDT	Assay16 (III)	2
FWA	Dietrich	st3	DDT	Assay10_2	1
FWA	Dietrich	st3	DDT	Assay15 (III)	2
FWA	Dietrich	st3	DDT	Assay14_1	2
FWA	Dietrich	st2	DES	Assay04	2
FWA	Dietrich	st2	DES	Assay05	1
FWA	Dietrich	st2	DES	Assay16	1
FWA	Dietrich	st2	DES	Assay06	2
FWA	Dietrich	st3	DES	Assay10_1	1
FWA	Dietrich	st3	DES	Assay12_1	2
FWA	Dietrich	st3	DES	Assay14_1	2
FWA	Dietrich	st3	DES	Assay13	2
FWA	Dietrich	st3	DHT	Assay12_1	2
FWA	Dietrich	st3	DHT	Assay14_1	2
FWA	Dietrich	st3	DHT	Assay10_1	1
FWA	Dietrich	st3	DHT	Assay13	2
FWA	Dietrich	st3	Dex	Assay14_2	0
FWA	Dietrich	st3	Dex	Assay10_2	1
FWA	Dietrich	st3	Dex	Assay12_2	1
FWA	Dietrich	st3	Dex	Assay15 (III)	1

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Dietrich	st3	E2-TC	Assay12_1	2
FWA	Dietrich	st3	E2-TC	Assay14_1	2
FWA	Dietrich	st3	E2-TC	Assay10_1	1
FWA	Dietrich	st3	E2-TC	Assay13	2
FWA	Dietrich	st2	EE2	Assay05	1
FWA	Dietrich	st2	EE2	Assay06	2
FWA	Dietrich	st2	EE2	Assay04	1
FWA	Dietrich	st2	EE2	Assay16	1
FWA	Dietrich	st3	EE2	Assay15 (III)	2
FWA	Dietrich	st3	EE2	Assay16 (III)	2
FWA	Dietrich	st3	EE2	Assay12_2	1
FWA	Dietrich	st3	EE2	Assay14_1	2
FWA	Dietrich	st3	EE2	Assay10_2	1
FWA	Dietrich	st3	ELactone	Assay09	2
FWA	Dietrich	st2	Equol	Assay06	2
FWA	Dietrich	st2	Equol	Assay04	2
FWA	Dietrich	st2	Equol	Assay05	1
FWA	Dietrich	st3	Equol	Assay09	2
FWA	Dietrich	st2	Gen	Assay04	2
FWA	Dietrich	st2	Gen	Assay06	2
FWA	Dietrich	st2	Gen	Assay05	2
FWA	Dietrich	st3	Gen	Assay14_1	2
FWA	Dietrich	st3	Gen	Assay13	2
FWA	Dietrich	st3	Gen	Assay12_1	2
FWA	Dietrich	st3	Gen	Assay10_1	0
FWA	Dietrich	st3	HPTE	Assay09	2
FWA	Dietrich	st3	Heptylphenol	Assay10_1	2
FWA	Dietrich	st3	Heptylphenol	Assay12_1	2
FWA	Dietrich	st3	Heptylphenol	Assay13	2
FWA	Dietrich	st2	Hexestrol	Assay05	2
FWA	Dietrich	st2	Hexestrol	Assay04	2
FWA	Dietrich	st2	Hexestrol	Assay06	2
FWA	Dietrich	st3	Hexestrol	Assay12_1	2
FWA	Dietrich	st3	Hexestrol	Assay10_1	2
FWA	Dietrich	st3	Hexestrol	Assay13	2
FWA	Dietrich	st3	Hexestrol	Assay11	2
FWA	Dietrich	st3	Kepone	Assay10_2	1
FWA	Dietrich	st3	Kepone	Assay16 (III)	2
FWA	Dietrich	st3	Kepone	Assay12_2	1
FWA	Dietrich	st3	Kepone	Assay15 (III)	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Dietrich	st3	Kepone	Assay14_1	2
FWA	Dietrich	st3	NE-TC	Assay14_1	1
FWA	Dietrich	st3	NE-TC	Assay13	2
FWA	Dietrich	st3	NE-TC	Assay12_1	2
FWA	Dietrich	st3	NE-TC	Assay10_1	1
FWA	Dietrich	st2	NPhenol	Assay04	1
FWA	Dietrich	st2	NPhenol	Assay05	1
FWA	Dietrich	st2	NPhenol	Assay06	2
FWA	Dietrich	st2	NPhenol	Assay16	2
FWA	Dietrich	st3	NPhenol	Assay10_1	1
FWA	Dietrich	st3	NPhenol	Assay14_1	2
FWA	Dietrich	st3	NPhenol	Assay12_1	2
FWA	Dietrich	st3	NPhenol	Assay13	2
FWA	Dietrich	st3	Nethdrone	Assay12_1	2
FWA	Dietrich	st3	Nethdrone	Assay14_1	2
FWA	Dietrich	st3	Nethdrone	Assay10_1	1
FWA	Dietrich	st3	Nethdrone	Assay13	2
FWA	Dietrich	st3	OTES	Assay09	0
FWA	Dietrich	st3	Progesterone	Assay09	0
FWA	Dietrich	st3	Tamox	Assay10_2	1
FWA	Dietrich	st3	Tamox	Assay14_1	2
FWA	Dietrich	st3	Tamox	Assay12_2	2
FWA	Dietrich	st3	Tamox	Assay13_2	2
FWA	Dietrich	st3	Zear	Assay09	2
FWA	Freyberger	st3	Atr	Code AB	0
FWA	Freyberger	st3	Atr	Code A	0
FWA	Freyberger	st3	Atr	Code A1	0
FWA	Freyberger	st3	BPA	Code B	2
FWA	Freyberger	st3	BPA	Code B2	2
FWA	Freyberger	st3	BaA_Ethol	Code A	0
FWA	Freyberger	st3	BaA_Ethol	Code A1	0
FWA	Freyberger	st3	BaA_Ethol	Code AB	0
FWA	Freyberger	st2	ButylPar	B	2
FWA	Freyberger	st2	ButylPar	D	2
FWA	Freyberger	st2	ButylPar	A	2
FWA	Freyberger	st2	Cort	G	0
FWA	Freyberger	st2	Cort	F	0
FWA	Freyberger	st2	Cort	B	0
FWA	Freyberger	st2	Cort	A	0
FWA	Freyberger	st2	Cort	E	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Freyberger	st2	Cort	D	0
FWA	Freyberger	st2	DBP	A	0
FWA	Freyberger	st2	DBP	G	0
FWA	Freyberger	st2	DBP	E	0
FWA	Freyberger	st2	DBP	F	0
FWA	Freyberger	st2	DBP	B	0
FWA	Freyberger	st2	DBP	D	0
FWA	Freyberger	st3	DBP	Code B2	1
FWA	Freyberger	st3	DBP	Code B	0
FWA	Freyberger	st3	DBP	Code A1	0
FWA	Freyberger	st3	DBP	Code A	0
FWA	Freyberger	st3	DBP	Code AB	0
FWA	Freyberger	st3	DBP-TC	Code A	0
FWA	Freyberger	st3	DBP-TC	Code A1	1
FWA	Freyberger	st2	DDT	E	2
FWA	Freyberger	st2	DDT	F	2
FWA	Freyberger	st2	DDT	B	2
FWA	Freyberger	st2	DDT	G	2
FWA	Freyberger	st2	DDT	D	2
FWA	Freyberger	st2	DDT	A	2
FWA	Freyberger	st2	DES	A	2
FWA	Freyberger	st2	DES	D	2
FWA	Freyberger	st2	DES	B	2
FWA	Freyberger	st3	DHT	Code A	2
FWA	Freyberger	st3	DHT	Code A1	2
FWA	Freyberger	st3	DHT	Code AB	2
FWA	Freyberger	st3	E2-TC	Code B2	1
FWA	Freyberger	st3	E2-TC	Code AB	1
FWA	Freyberger	st3	E2-TC	Code B	2
FWA	Freyberger	st2	EE2	B	2
FWA	Freyberger	st2	EE2	A	2
FWA	Freyberger	st2	EE2	D	2
FWA	Freyberger	st3	ELactone	Code B	1
FWA	Freyberger	st3	ELactone	Code B2	2
FWA	Freyberger	st2	Equol	D	2
FWA	Freyberger	st2	Equol	B	2
FWA	Freyberger	st2	Equol	A	2
FWA	Freyberger	st2	Gen	G	2
FWA	Freyberger	st2	Gen	D	2
FWA	Freyberger	st2	Gen	E	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Freyberger	st2	Gen	B	1
FWA	Freyberger	st2	Gen	A	2
FWA	Freyberger	st2	Gen	F	2
FWA	Freyberger	st3	Heptylphenol	Code A1	2
FWA	Freyberger	st3	Heptylphenol	Code AB	2
FWA	Freyberger	st3	Heptylphenol	Code A	2
FWA	Freyberger	st2	Hexestrol	B	2
FWA	Freyberger	st2	Hexestrol	A	2
FWA	Freyberger	st2	Hexestrol	D	2
FWA	Freyberger	st3	Kepone	Code B	2
FWA	Freyberger	st3	Kepone	Code B2	2
FWA	Freyberger	st3	NE-TC	Code A1	2
FWA	Freyberger	st3	NE-TC	Code AB	2
FWA	Freyberger	st3	NE-TC	Code A	2
FWA	Freyberger	st2	NPhenol	B	2
FWA	Freyberger	st2	NPhenol	A	2
FWA	Freyberger	st2	NPhenol	D	2
FWA	Freyberger	st3	OTES	Code B2	0
FWA	Freyberger	st3	OTES	Code AB	0
FWA	Freyberger	st3	OTES	Code B	0
FWA	Freyberger	st3	Progesterone	Code A	0
FWA	Freyberger	st3	Progesterone	Code A1	0
FWA	Freyberger	st3	Tamox	Code B2	2
FWA	Freyberger	st3	Tamox	Code B	2
FWA	Freyberger	st3	Zear	Code A	2
FWA	Freyberger	st3	Zear	Code A1	1
FWA	Freyberger	st3	Zear	Code AB	2
FWA	JapanCERI	st3	Atr	91117	0
FWA	JapanCERI	st3	Atr	91112	0
FWA	JapanCERI	st3	Atr	91110	0
FWA	JapanCERI	st3	Atr	91118	0
FWA	JapanCERI	st3	BPA	91119	2
FWA	JapanCERI	st3	BPA	91021	2
FWA	JapanCERI	st3	BPA	91116	2
FWA	JapanCERI	st3	BaA_DMSO	91112	0
FWA	JapanCERI	st3	BaA_DMSO	91110	1
FWA	JapanCERI	st3	BaA_DMSO	91117	0
FWA	JapanCERI	st3	BaA_DMSO	91118	0
FWA	JapanCERI	st2	ButylPar	20090422	2
FWA	JapanCERI	st2	ButylPar	20090430	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	JapanCERI	st2	ButylPar	20090427	2
FWA	JapanCERI	st2	Cort	20090422	0
FWA	JapanCERI	st2	Cort	20090427	0
FWA	JapanCERI	st2	Cort	20090430	0
FWA	JapanCERI	st1	DBP	20090128	0
FWA	JapanCERI	st1	DBP	20090121	0
FWA	JapanCERI	st1	DBP	20090113	0
FWA	JapanCERI	st2	DBP	20090430	0
FWA	JapanCERI	st2	DBP	20090422	0
FWA	JapanCERI	st2	DBP	20090427	0
FWA	JapanCERI	st3	DBP	91105	0
FWA	JapanCERI	st3	DBP	91118	0
FWA	JapanCERI	st3	DBP	91112	0
FWA	JapanCERI	st3	DBP	91117	0
FWA	JapanCERI	st3	DBP	91110	0
FWA	JapanCERI	st3	DBP	91119	0
FWA	JapanCERI	st3	DBP	91109	0
FWA	JapanCERI	st3	DBP	91116	0
FWA	JapanCERI	st3	DBP	91111	0
FWA	JapanCERI	st3	DBP	91021	0
FWA	JapanCERI	st3	DBP-TC	91116	1
FWA	JapanCERI	st3	DBP-TC	91021	1
FWA	JapanCERI	st2	DDT	20090422	2
FWA	JapanCERI	st2	DDT	20090430	2
FWA	JapanCERI	st2	DDT	20090427	2
FWA	JapanCERI	st2	DES	20090427	2
FWA	JapanCERI	st2	DES	20090422	2
FWA	JapanCERI	st2	DES	20090430	2
FWA	JapanCERI	st3	DHT	91116	2
FWA	JapanCERI	st3	DHT	91021	2
FWA	JapanCERI	st3	E2-TC	91110	1
FWA	JapanCERI	st3	E2-TC	91117	2
FWA	JapanCERI	st3	E2-TC	91112	2
FWA	JapanCERI	st3	E2-TC	91118	2
FWA	JapanCERI	st3	E2-TC	91111	2
FWA	JapanCERI	st3	E2-TC	91109	2
FWA	JapanCERI	st2	EE2	20090422	2
FWA	JapanCERI	st2	EE2	20090430	2
FWA	JapanCERI	st2	EE2	20090427	2
FWA	JapanCERI	st3	ELactone	91105	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	JapanCERI	st3	ELactone	91109	2
FWA	JapanCERI	st3	ELactone	91111	2
FWA	JapanCERI	st2	Equol	20090422	2
FWA	JapanCERI	st2	Equol	20090430	2
FWA	JapanCERI	st2	Equol	20090427	2
FWA	JapanCERI	st2	Gen	20090427	2
FWA	JapanCERI	st2	Gen	20090422	2
FWA	JapanCERI	st2	Gen	20090430	2
FWA	JapanCERI	st3	Heptylphenol	91116	2
FWA	JapanCERI	st3	Heptylphenol	91021	2
FWA	JapanCERI	st3	Heptylphenol	91119	2
FWA	JapanCERI	st2	Hexestrol	20090430	2
FWA	JapanCERI	st2	Hexestrol	20090422	2
FWA	JapanCERI	st2	Hexestrol	20090427	2
FWA	JapanCERI	st3	Kepone	91116	2
FWA	JapanCERI	st3	Kepone	91021	2
FWA	JapanCERI	st3	NE-TC	91105	2
FWA	JapanCERI	st3	NE-TC	91111	2
FWA	JapanCERI	st3	NE-TC	91109	2
FWA	JapanCERI	st2	NPhenol	20090427	2
FWA	JapanCERI	st2	NPhenol	20090422	2
FWA	JapanCERI	st2	NPhenol	20090430	2
FWA	JapanCERI	st3	OTES	91111	0
FWA	JapanCERI	st3	OTES	91116	0
FWA	JapanCERI	st3	OTES	91109	0
FWA	JapanCERI	st3	OTES	91105	0
FWA	JapanCERI	st3	OTES	91119	0
FWA	JapanCERI	st3	Progesterone	91109	0
FWA	JapanCERI	st3	Progesterone	91021	1
FWA	JapanCERI	st3	Progesterone	91105	0
FWA	JapanCERI	st3	Progesterone	91111	0
FWA	JapanCERI	st3	Tamox	91105	2
FWA	JapanCERI	st3	Tamox	91021	2
FWA	JapanCERI	st3	Tamox	91116	2
FWA	JapanCERI	st3	Zear	91021	2
FWA	JapanCERI	st3	Zear	91116	2
FWA	JapanCERI	st3	Zear	91105	2
FWA	JapanCERI	st3	Zear	91109	2
FWA	Lovelace	st12	Atr	Run09July10 EtOH_Buffer	0
FWA	Lovelace	st3	BPA	30Jun09EtOH	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Lovelace	st2	ButylPar	24Feb09EtOH	2
FWA	Lovelace	st2	ButylPar	01May09EtOH	2
FWA	Lovelace	st2	Cort	17Feb09DMSO	2
FWA	Lovelace	st12	DBP	Run06Oct09 EtOH	0
FWA	Lovelace	st12	DBP	Run09July10 EtOH_Buffer	0
FWA	Lovelace	st12	DBP	Run09July10 EtOH_Buffer	0
FWA	Lovelace	st2	DBP	Run17Feb09DMSO	0
FWA	Lovelace	st2	DBP	Run01May09EtOH	0
FWA	Lovelace	st2	DBP	Run24Feb09EtOH	1
FWA	Lovelace	st3	DBP	Run19Jun09EtOH	0
FWA	Lovelace	st3	DBP	Run30Jun09EtOH	0
FWA	Lovelace	st12	DBP-TC	Run09July10 EtOH_Buffer	2
FWA	Lovelace	st12	DBP-TC	06Oct09EtOH_Buff	1
FWA	Lovelace	st2	DDT	24Feb09EtOH	2
FWA	Lovelace	st2	DES	24Feb09EtOH	2
FWA	Lovelace	st2	DES	01May09EtOH	2
FWA	Lovelace	st3	DHT	30Jun09EtOH	2
FWA	Lovelace	st12	E2-TC	Run09July10 EtOH_Buffer	2
FWA	Lovelace	st12	E2-TC	06Oct09EtOH_Buff	1
FWA	Lovelace	st3	E2-TC	30Jun09EtOH	2
FWA	Lovelace	st3	E2-TC	19Jun09EtOH	1
FWA	Lovelace	st2	EE2	17Feb09DMSO	2
FWA	Lovelace	st12	EE2_b	Run09July10 EtOH_Buffer	2
FWA	Lovelace	st12	EE2_b	06Oct09EtOH_Buff	1
FWA	Lovelace	st2	Equol	24Feb09EtOH	2
FWA	Lovelace	st2	Gen	01May09EtOH	2
FWA	Lovelace	st2	Gen	17Feb09DMSO	2
FWA	Lovelace	st12	Heptylphenol	Run09July10 EtOH_Buffer	2
FWA	Lovelace	st3	Heptylphenol	30Jun09EtOH	2
FWA	Lovelace	st3	Heptylphenol	19Jun09EtOH	2
FWA	Lovelace	st2	Hexestrol	01May09EtOH	2
FWA	Lovelace	st2	Hexestrol	17Feb09DMSO	2
FWA	Lovelace	st12	Kepone	Run09July10 EtOH_Buffer	2
FWA	Lovelace	st3	Kepone	19Jun09EtOH	2
FWA	Lovelace	st3	Kepone	30Jun09EtOH	2
FWA	Lovelace	st3	NE-TC	19Jun09EtOH	2
FWA	Lovelace	st3	NE-TC	30Jun09EtOH	2
FWA	Lovelace	st2	NPhenol	24Feb09EtOH	2
FWA	Lovelace	st12	Progesterone	Run09July10 EtOH_Buffer	2
FWA	Lovelace	st3	Progesterone	30Jun09EtOH	2

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Lovelace	st3	Progesterone	19Jun09EtOH	2
FWA	Lovelace	st3	Tamox	30Jun09EtOH	2
FWA	Lovelace	st3	Zear	19Jun09EtOH	2
FWA	Lovelace	st3	Zear	30Jun09EtOH	2
FWA	Missouri	st3	Atr	8004	0
FWA	Missouri	st3	Atr	8005	0
FWA	Missouri	st3	Atr	8003	0
FWA	Missouri	st3	BPA	8107	2
FWA	Missouri	st3	BPA	8102	2
FWA	Missouri	st3	BPA	8101	2
FWA	Missouri	st4	BPA	1106	2
FWA	Missouri	st4	BPA	1104	2
FWA	Missouri	st4	BPA	1107	2
FWA	Missouri	st4	BPA	1108	2
FWA	Missouri	st4	BPA	1101	2
FWA	Missouri	st4	BPA	1109	2
FWA	Missouri	st4	BPA	1102	2
FWA	Missouri	st3	BaA_DMSO	8201	0
FWA	Missouri	st3	BaA_DMSO	8203	0
FWA	Missouri	st3	BaA_Ethol	8004	0
FWA	Missouri	st3	BaA_Ethol	8003	0
FWA	Missouri	st2	ButylPar	9007	2
FWA	Missouri	st2	ButylPar	9004	2
FWA	Missouri	st2	ButylPar	9005	2
FWA	Missouri	st2	ButylPar	9003	2
FWA	Missouri	st2	Cort	9003	0
FWA	Missouri	st2	Cort	9005	0
FWA	Missouri	st2	Cort	9007	0
FWA	Missouri	st2	Cort	9004	0
FWA	Missouri	st4	Cort_b	1107	0
FWA	Missouri	st4	Cort_b	1106	0
FWA	Missouri	st4	Cort_b	1102	0
FWA	Missouri	st4	Cort_b	1104	0
FWA	Missouri	st4	Cort_b	1101	0
FWA	Missouri	st4	Cort_b	1108	0
FWA	Missouri	st4	Cort_b	1109	0
FWA	Missouri	st4	Cort_b	1103	1
FWA	Missouri	st1	DBP	7007	0
FWA	Missouri	st1	DBP	7006	0
FWA	Missouri	st1	DBP	7003	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Missouri	st1	DBP	7005	0
FWA	Missouri	st1	DBP	7004	0
FWA	Missouri	st2	DBP	9004	0
FWA	Missouri	st2	DBP	9005	0
FWA	Missouri	st2	DBP	9007	0
FWA	Missouri	st2	DBP	9003	0
FWA	Missouri	st3	DBP	8102	0
FWA	Missouri	st3	DBP	8107	0
FWA	Missouri	st3	DBP	8101	0
FWA	Missouri	st3	DBP	8201	0
FWA	Missouri	st3	DBP	8003	0
FWA	Missouri	st3	DBP	8005	0
FWA	Missouri	st3	DBP	8203	0
FWA	Missouri	st3	DBP	8004	0
FWA	Missouri	st4	DBP	1104	0
FWA	Missouri	st4	DBP	1108	0
FWA	Missouri	st4	DBP	1106	0
FWA	Missouri	st4	DBP	1101	0
FWA	Missouri	st4	DBP	1103	0
FWA	Missouri	st4	DBP	1102	0
FWA	Missouri	st4	DBP	1107	0
FWA	Missouri	st4	DBP	1109	0
FWA	Missouri	st3	DBP-TC	8107	0
FWA	Missouri	st3	DBP-TC	8102	1
FWA	Missouri	st3	DBP-TC	8101	1
FWA	Missouri	st2	DDT	9004	2
FWA	Missouri	st2	DDT	9003	2
FWA	Missouri	st2	DDT	9005	2
FWA	Missouri	st2	DDT	9007	2
FWA	Missouri	st2	DES	9007	2
FWA	Missouri	st2	DES	9004	2
FWA	Missouri	st2	DES	9005	2
FWA	Missouri	st2	DES	9003	2
FWA	Missouri	st3	DHT	8102	2
FWA	Missouri	st3	DHT	8101	2
FWA	Missouri	st3	DHT	8107	2
FWA	Missouri	st4	Dex	1101	0
FWA	Missouri	st4	Dex	1102	0
FWA	Missouri	st4	Dex	1109	0
FWA	Missouri	st4	Dex	1106	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Missouri	st4	Dex	1107	0
FWA	Missouri	st4	Dex	1104	0
FWA	Missouri	st4	Dex	1108	0
FWA	Missouri	st4	Dex	1103	1
FWA	Missouri	st3	E2-TC	8101	2
FWA	Missouri	st3	E2-TC	8107	2
FWA	Missouri	st3	E2-TC	8102	2
FWA	Missouri	st2	EE2	9004	2
FWA	Missouri	st2	EE2	9007	2
FWA	Missouri	st2	EE2	9003	2
FWA	Missouri	st2	EE2	9005	2
FWA	Missouri	st3	ELactone	8004	2
FWA	Missouri	st3	ELactone	8003	2
FWA	Missouri	st2	Equol	9004	2
FWA	Missouri	st2	Equol	9003	2
FWA	Missouri	st2	Equol	9005	2
FWA	Missouri	st2	Equol	9007	2
FWA	Missouri	st2	Gen	9003	2
FWA	Missouri	st2	Gen	9005	2
FWA	Missouri	st2	Gen	9007	2
FWA	Missouri	st2	Gen	9004	2
FWA	Missouri	st2	GenW	9007	2
FWA	Missouri	st2	GenW	9004	2
FWA	Missouri	st2	GenW	9003	2
FWA	Missouri	st2	GenW	9005	2
FWA	Missouri	st4	Gen_b	1101	2
FWA	Missouri	st4	Gen_b	1109	1
FWA	Missouri	st4	Gen_b	1104	2
FWA	Missouri	st4	Gen_b	1102	2
FWA	Missouri	st4	Gen_b	1107	2
FWA	Missouri	st4	Gen_b	1106	2
FWA	Missouri	st4	Gen_b	1108	2
FWA	Missouri	st4	HPTE	1103	2
FWA	Missouri	st4	HPTE	1108	2
FWA	Missouri	st4	HPTE	1102	2
FWA	Missouri	st4	HPTE	1107	2
FWA	Missouri	st4	HPTE	1104	2
FWA	Missouri	st4	HPTE	1106	2
FWA	Missouri	st4	HPTE	1109	2
FWA	Missouri	st4	HPTE	1101	1

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Missouri	st3	Heptylphenol	8003	0
FWA	Missouri	st3	Heptylphenol	8004	0
FWA	Missouri	st2	Hexestrol	9007	2
FWA	Missouri	st2	Hexestrol	9005	2
FWA	Missouri	st2	Hexestrol	9003	2
FWA	Missouri	st2	Hexestrol	9004	2
FWA	Missouri	st3	Kepone	8004	2
FWA	Missouri	st3	Kepone	8003	2
FWA	Missouri	st3	NE-TC	8107	2
FWA	Missouri	st3	NE-TC	8101	2
FWA	Missouri	st3	NE-TC	8102	2
FWA	Missouri	st2	NPhenol	9007	2
FWA	Missouri	st2	NPhenol	9004	2
FWA	Missouri	st2	NPhenol	9005	2
FWA	Missouri	st2	NPhenol	9003	2
FWA	Missouri	st4	Nethdrone	1107	2
FWA	Missouri	st4	Nethdrone	1102	2
FWA	Missouri	st4	Nethdrone	1109	2
FWA	Missouri	st4	Nethdrone	1107	2
FWA	Missouri	st4	Nethdrone	1109	2
FWA	Missouri	st4	Nethdrone	1104	2
FWA	Missouri	st4	Nethdrone	1101	2
FWA	Missouri	st4	Nethdrone	1108	2
FWA	Missouri	st4	Nethdrone	1108	2
FWA	Missouri	st4	Nethdrone	1102	2
FWA	Missouri	st4	Nethdrone	1106	2
FWA	Missouri	st4	Nethdrone	1101	2
FWA	Missouri	st4	Nethdrone	1106	2
FWA	Missouri	st4	Nethdrone	1103	2
FWA	Missouri	st4	Nethdrone	1104	2
FWA	Missouri	st3	OTES	8005	0
FWA	Missouri	st3	OTES	8003	0
FWA	Missouri	st3	OTES	8004	0
FWA	Missouri	st4	OTES	1108	0
FWA	Missouri	st4	OTES	1104	0
FWA	Missouri	st4	OTES	1101	0
FWA	Missouri	st4	OTES	1107	0
FWA	Missouri	st4	OTES	1102	0
FWA	Missouri	st4	OTES	1106	0
FWA	Missouri	st4	OTES	1109	0

Protocol	Laboratory	Chemical	SubTask	Test	Individual Run Classification Vote
FWA	Missouri	st3	Progesterone	8004	0
FWA	Missouri	st3	Progesterone	8003	0
FWA	Missouri	st3	Progesterone	8005	0
FWA	Missouri	st3	Tamox	8102	2
FWA	Missouri	st3	Tamox	8107	2
FWA	Missouri	st3	Tamox	8101	2
FWA	Missouri	st3	Zear	8102	2
FWA	Missouri	st3	Zear	8101	2
FWA	Missouri	st3	Zear	8107	2