

## **WA 4-11 TASK 6**

### **Validation of an Androgen Receptor Binding Assay**

### **Overview Report**

The objective for WA 4-11 Task 6 was to establish the variability of results among independent laboratories when using cytosol prepared by individual laboratories, Battelle-supplied R 1881 from a common-lot, Battelle-supplied “weak binder” dexamethasone from a common lot, and a common lot of 3H-R1881 and a set of ten unknown test chemicals. Stock concentrations of R1881, and dexamethasone and unknown test chemicals were supplied by Battelle, Sequim Chemical Repository to the independent laboratories. To conduct this task participating laboratories were supplied with a detail protocol for androgen receptor (AR) saturation and competitive binding assays.

Please note that the work assignments for Labs B-D are identified as Task 4 and the same activity for Lab E is identified as Task 6.

The data obtained from this exercise is summarized for all labs in the following pdf files :

1. WA 4-11-6 Kd-Bmax.pdf
2. WA 4-11-6 IC50 tables.pdf
3. WA 4-11-6 Summary of Standard Curves.pdf
4. WA 4-11-6 Summary of Weak Positive.pdf

Coupled with this overview is:

1. Statistical analysis of the data obtained comparing the Kd and Bmax values from saturation assays and IC50s and RBA values from competitive assays - WA 4-11 Task 5 Statistical Analysis Report.doc
2. Purity and stability analysis conducted by the Chemical Repository - WA\_4-11\_purity\_stability\_-\_012006\_final\_draft.pdf

Additional documents for this task report included the following documents:

1. Task Report files from Lab. B,C,D and E as pdf document
2. Excel Files for saturation and competitive assays for each participating laboratory
3. Prism Files for saturation and competitive assays for each participating laboratory
4. Pdf files for Prism files and excel files
5. Index file for participating laboratories identifying task participation - Lab Index Information File.xls
6. Bar Codes WA 4-11 Task 6.

Following data analysis and review for Task 5, laboratories B, C, and E had performed acceptable saturation and competitive assays and moved forward to activities defined under Task 6 in this work assignment. Laboratory D was not able to obtain cytosol with appropriate activity and was not able to complete Task 5. During Task 5, Lab A exhausted their funds and were requested to send their cytosol preparation to Lab D to conduct Task 6. Lab D conducted one saturation assay and a series of competitive binding assays and this data is presented in this report. Lab A had been dropped from the study and did not participate in this task.