

## **WA 4-11 TASK 5**

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

### **Overview Report**

The objective for WA 4-11 Task 5 was to establish the variability of results among five 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. Stock concentrations of R1881, and dexamethasone 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 A-D are identified as Task 3 and the same activity for Lab E is identified as Task 5.

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

1. WA 4-11-5 Kd-Bmax.pdf
2. WA 4-11-5 Summary of Standard Curves.pdf
3. WA 4-11-5 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. A, 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. Excel file of competitive data organized for analysis - WA 4-11-5 dr-gray file.xls

Following data analysis and review for Task 5, laboratories B, C, and E had performed acceptable saturation and competitive assays and moved forward to the next task in this work assignment. Laboratory D was not able to obtain cytosol with appropriate activity and was not able to complete Task 5. Their data and report is limited to several saturation binding assays which did not demonstrate appropriate binding activity. Therefore no competitive binding assays were conducted. During Task 5, Lab A exhausted their funds and were requested to send their cytosol preparation to Lab D to conduct Task 6. Lab A did not prepare or submit a Task 5 report.