

WA 4-11 TASK 4

Validation of an Androgen Receptor Binding Assay

Overview Report

The objective for WA 4-11 Task 4 was to establish the variability of results among five independent laboratories when using Battelle-supplied “standard” cytosol preparation, 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 2 and the same activity for Lab E is identified as Task 4.

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

1. WA 4-11-4 Kd-Bmax.pdf
2. WA 4-11-4 Summary of Standard Curves.pdf
3. WA 4-11-4 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 4 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 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 4-11-4 dr-gray file.xls

Following data analysis and review for Task 4, all participating laboratories performed acceptable saturation and competitive assays and moved forward to the next task in this work assignment.