

WA 4-11 TASK 7

Validation of an Androgen Receptor Binding Assay

Overview Report

The objective for WA 4-11 Task 7 was to test approximately 30 test chemicals (substances) to expand the data base on chemicals for the validation of the AR binding assay. The assays will use cytosol prepared by Battelle, 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 Battelle, Richland. A detail protocol for androgen receptor (AR) saturation and competitive binding assays was followed to conduct these assays.

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

1. WA 4-11-7 Kd-Bmax.pdf
2. WA 4-11-7 Summary of Standard Curves.pdf
3. WA 4-11-7 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 7 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 4-11-7 dr-gray file.xls
7. Excel file listing unknown substances and ID codes - WA 4-11-7 code file.xls