



Alpha –synuclein assay

Peggy Taylor, Covance

The concentration of alpha-synuclein in CSF samples collected for PPMI were analyzed using an ELISA assay available commercially from Covance (cat # SIG-38974-kit).

Method 111

The method of analysis is a sandwich type ELISA that utilizes a luminescent readout. The reference standards used in the assay ranged from 6.1-1500 pg/ml. The concentration of alpha-synuclein in each sample was determined by interpolation of values against the standard curve established by the reference standards using a 4-parameter regression. Recombinant alpha-synuclein from rPeptide was used as the standard in this assay. Each CSF sample was analyzed in triplicate at a dilution of 1:20. In cases where the %CV of the triplicate measurements was greater than 15%, the sample was retested. Within each plate two independent CSF samples were used as QC samples. Performance of the QC samples was as follows: QC-1 average= 1165 pg/ml, stdev=196 (17%), QC-2 average= 1509 pg/ml, stdev=251 (17%). Plate acceptance criteria were set as: Replicate standard curve calibrators must be less than 15% CV and QC samples must read within the established range (mean+/- 2SD)

References

1. Assay protocol- http://store.crpinc.com/protocols/sig-38974_protocol_111109.pdf
2. Product information page- <https://store.crpinc.com/datasheet.aspx?Catalogno=SIG-38974>

About the Authors

This document was prepared by **Peggy Taylor, Covance, Antibody Products**. For more information please contact **Peggy Taylor** at insert phone (781) 915-5205 or by email at **peggy.taylor@covance.com**.

Notice: This document is presented by the author(s) as a service to PPMI data users. However, users should be aware that no formal review process has vetted this document and that PPMI cannot guarantee the accuracy or utility of this document.

