

Certificate of Analysis Olink Proteomics



PROJECT NAME	Test project
DELIVERY DATE	2018-02-20
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1. PROJECT INFORMATION

Panel name	No. of Samples	No. of Plates	Normalization Method
Olink NEUROLOGY	156	2	Intensity Normalized

1.1 Sample type

EDTA Plasma

1.2 Project specific comments

Due to technical issues recently identified with the BDNF assay, we are unable to report any data for this analyte.

For more details, please visit the following link: www.olink.com/bdnf-info

2. QUALITY CONTROL

Four internal controls are added to each sample to monitor the quality of assay performance, as well as the quality of individual samples. The quality control (QC) is performed in two steps:

1. Each sample plate is evaluated on the standard deviation of the internal controls. This should be below 0.2 NPX. Only data from sample plate that pass this quality control will be reported.
2. The quality of each sample is assessed by evaluating the deviation from the median value of the controls for each individual sample. Samples that deviate less than 0.3 NPX from the median pass the quality control.

Data from all samples is included in the data output file. Samples that do not pass the QC will be indicated in columns named "QC Warning". For samples that did not pass QC, data values will be highlighted in red text. Data from samples that do not pass QC should be treated with caution. [1]

2.1 Summary of Quality Control

Panel name	No. of samples that passed QC / Tot no. of samples	Passed samples (%)
Olink NEUROLOGY	152 / 156	97

2.2 Intra- and Inter-Assay Coefficient of Variance (%CV)

Intra and inter CVs are based on control samples (pooled plasma samples) included on each plate. Calculations are made using linear NPX-values. The number of assays with CVs within defined intervals are presented.

2.2.1 Average %CV

Panel name	Intra-Assay %CV Reference intra CV <15%	Inter-Assay %CV Reference inter CV <25%
Olink NEUROLOGY	6	7

2.2.2 Intra-Assay %CV Distribution

Panel name	No. of proteins with %CV within defined intervals			
	<5%	5-10%	10-15%	>15%
Olink NEUROLOGY	28	60	3	0

2.2.3 Inter-Assay %CV Distribution

Panel name	No. of proteins with %CV within defined intervals			
	<10%	10-20%	20-30%	>40%
Olink NEUROLOGY	80	10	1	0

3. PROTEIN DETECTION RESULTS

3.1 Number of proteins detected in >75% of the samples

Panel name	No. of detected proteins / Tot no. of proteins	Detected proteins (%)	Expected detectability in EDTA plasma* (%)
Olink NEUROLOGY	91 / 92	99	>90

*The expected detectability is based on EDTA plasma from healthy donors. These values are intended as guidelines only and protein levels may vary depending on different pathological conditions, sample matrices, or sample preparation methods.

3.2 Data output

Data is presented as normalized protein expression (NPX) values, Olink Proteomics' arbitrary unit on log2 scale [2].

The NPX values for each individual sample are presented in a separate .xlsx file. For samples that did not pass QC, data values will be highlighted in red text. Values below limit of detection are highlighted with red background.

4. FURTHER INFORMATION

- <http://www.olink.com/data/>
- <http://www.olink.com/question/what-is-npx/>
- <http://www.olink.com/>
- <http://www.olink.com/products/complete-biomarker-list/>

5. SAMPLES THAT DID NOT PASS QC

Sample ID	Olink NEUROLOGY
A14	x
A54	x
B10	x
B69	x