Concordance Test instruction for Olink® Target 48 and Flex

This instruction describes the workflow for a Concordance run using Olink® Concordance Test with Olink® Target 48 or Flex.
For more detailed information on running Olink Target 48 and Flex panels, please refer to the user manual for the specific product.

1. About the test

Olink® Concordance Test is developed to give Olink-trained labs the possibility to show similarity in run quality in-house compared to Olink Analysis Service labs.

The Olink Concordance Test consists of:

- Olink® Concordance Test plate
- Concordance Test report

Results from the Concordance Test are provided in the summarizing Concordance Test report with results comparing Olink Analysis Service lab and Olink-trained lab.

1.1 Olink Concordance Test plate

The Concordance Test plate is a 96-well Sample Plate containing 50 plasma samples, 48 samples in columns 1–6 and 2 samples in column 12.
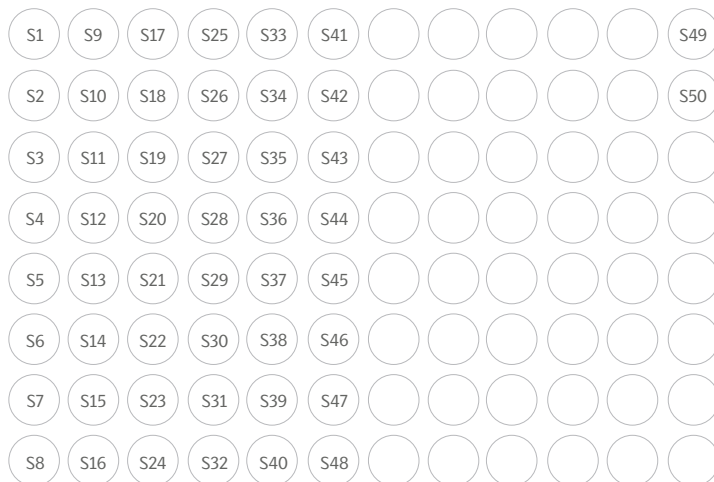
1.2 Concordance Test report

The report includes a summary of:

- QC Warning
- PCA
- Intra CV
- Correlation
- Regression
- Detectability

2. Equipment

Equipment and consumables required for performing the concordance test.

Ordered by customer:

- One (1) Olink Concordance Test
- One (1) Olink® Target 48 or Flex reagent kit
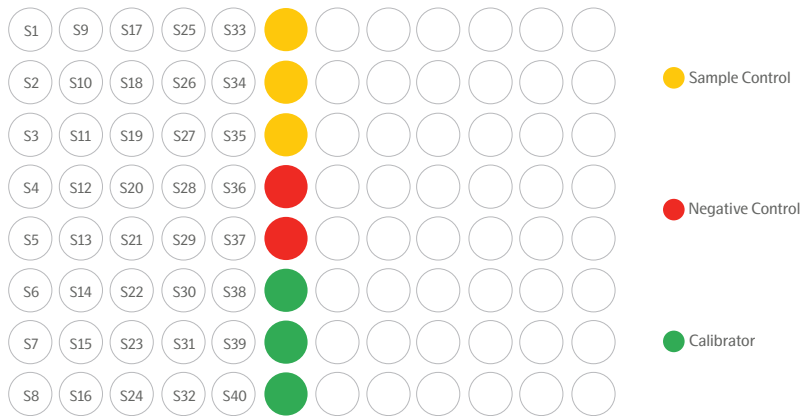- One (1) Olink® 48.48 IFC for Protein Expression

Provided by Olink:

- Sample manifest

3. Workflow

1. Thaw the Olink® Concordance Test Sample Plate. 48 samples in columns 1–6 and 2 samples in column 12 are provided.
   !NOTE For this Target 48 or Flex run, only samples S1 to S40 in columns 1–5 will be used. Use the Sample Control provided with the reagent kit.

2. Run the Olink® Target 48 or Flex reagent kit according to the user manual for the specific product. Store the Concordance Test Sample Plate at −80°C in case a rerun is required.

3. QC your data according to the Olink® NPX Signature User Manual.
   !NOTE Use the exact sample manifest provided by Olink, to ensure generated data and report are correct.
   !NOTE All QC criteria need to be fulfilled to ensure that the Concordance Test results can be correctly calculated. .
   Contact support@olink.com if there are any concerns regarding the QC.

4. Export the results file with the following settings:
   Data Type: Quantified Values
   Assay Types: Assays and Control Assays
   Output format: Long
   File type: Text
   Value Separator: Comma
   Decimal: Period
   Sample Types: Samples, Control Samples, Plate Control
   Export the Analysis Report.

5. Email the exported data and Analysis Report to support@olink.com. We also ask you to provide the NPX Signature project file (.npx file), and/or the run files (.q100 files).

6. A Concordance Test report will be sent to you with data comparing your run with Olink Analysis Service.

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