



Untargeted metabolomics assays

Our untargeted assay provides peak areas of the metabolites. All our untargeted assays are validated in EDTA plasma based on stable isotope-labelled analogues of the metabolites. Our portfolio includes:

Global polar untargeted profiling:

Required sample volume (EDTA plasma): 75 μ L

What: This assay reports medium polar metabolites include amino acids, biogenic amines, organic acids, carbohydrates, di-/tri-peptides, bile acids, phospholipids, steroids, free fatty acids, and exposure markers, such as food, drugs, pollutants.

How: After a protein precipitation step, these metabolites are measured by reversed-phase UHPLC-MS after two separate injections: one in positive ionization mode and one in negative ionization mode. Metabolite identification is executed by SWATH-MS analysis based on our in-house spectral library. Instrumentation used for this assay comprises of a Shimadzu UHPLC coupled to a Sciex TripleTOF 6600+ mass spectrometer.



Instrumentation used for global polar untargeted profiling assay