

Oxylipin Targeted Metabolomics

Oxylipins, bioactive lipids derived from the oxidation of omega-3 and omega-6 PUFAs via COX, LOX, and CYP enzymes, regulate key processes like inflammation, immunity, blood flow, and cellular signaling. MetwareBio's oxylipin targeted metabolomics assay enables simultaneous absolute quantification of 141 oxylipins.



Absolute Quantitation

141 standard curves
 $r > 0.99$, 25 isotope internal standards

ng/ml

High Sensitivity

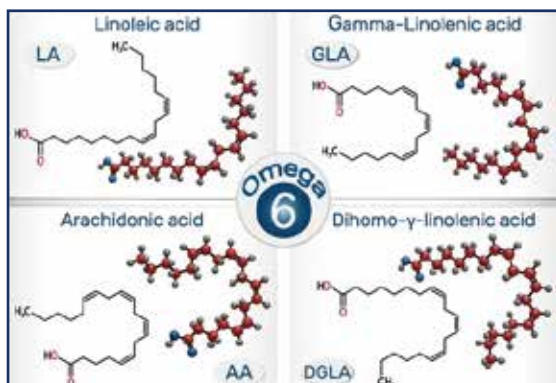
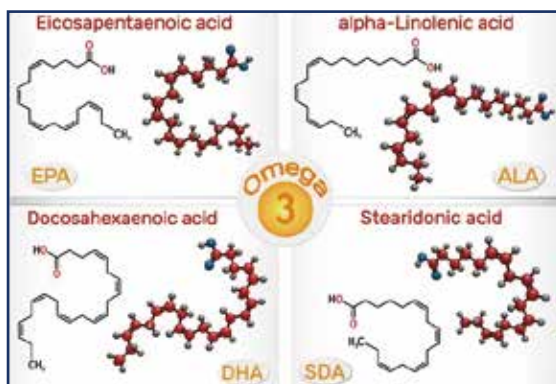
ng/ml concentration can be detected



Wide Coverage

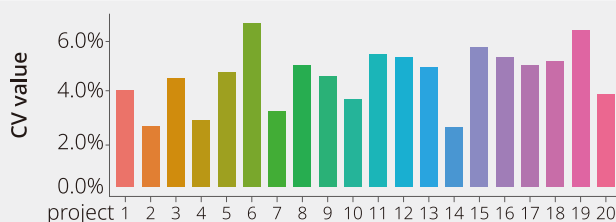
Covering 141 oxylipins

Key precursor fatty acids



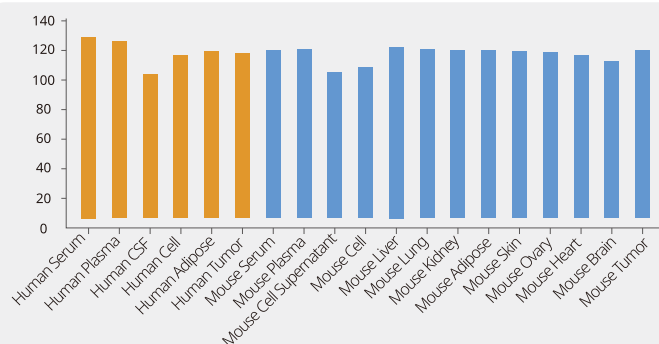
High Stability

The detected metabolites showed a coefficient of variation (CV) of less than 7% in mixed QC samples.



Project Experience

A total of 141 metabolites could be detected from various samples, with an average detection of 117 metabolites



Number of detected metabolites in different sample types.

METWARE BIO



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