

Instrument	Applications
Q Exactive Hybrid Quadrupole-Orbitrap Mass Spectrometer (Thermo Fisher Scientific)	Ultra high-resolution, accurate mass untargeted analysis of metabolites, lipids, proteins and their post-translational modifications.
rapifleX MALDI Tissuetyper Mass Spectrometer (Bruker Daltonics)	Mass spectrometry imaging (MSI) of tissue sections for spatial localization of proteins, lipids, and small molecules. Also used for analysis of high molecular weight analytes such as intact proteins.
Triple Quad 6500+ LC-MS/MS System with QTRAP® Technology (SCIEX)	Ultra-sensitive, targeted quantification of small molecules, lipids, and peptides; ideal for large, targeted metabolomics/lipidomics panels.
Triple Quad 5500+ LC-MS/MS System with QTRAP Technology (SCIEX)	Robust and high-throughput targeted quantification of small molecules, lipids, and peptides; ideal for small, targeted analyses such as pharmacokinetics and ADME profiling.
1290 Infinity HPLC (Agilent) x 2	High-performance liquid chromatography for separation and quantification of diverse biomolecules with high precision and reproducibility.
Vanquish Flex UHPLC (Thermo Fisher Scientific)	Ultra-high performance liquid chromatography for sensitive and fast separation of complex biological samples.
EASY-nLC 1000 (Thermo Fisher Scientific)	Nano-liquid chromatography system optimized for proteomics applications, enabling high-sensitivity peptide separation prior to mass spectrometry analysis.
Orbitrap Astral Mass Spectrometer (Thermo Fisher Scientific)	Next-generation Orbitrap mass spectrometer offering ultra-fast scan speeds, sensitivity, and deep proteome coverage. Ideal for high-throughput bottom-up proteomics, enabling identification and quantification of low-abundance proteins and post-translational modifications in complex biological samples.

