EQUIPMENT CARD

PLAPIQUI



#5616

Ultra High Performance Liquid Chromatograph coupled to Triple Quadrupole Mass Spectrometer (UHPLC-MS/MS) 8050 SHIMADZU

DESCRIPTION

Ultra high performance liquid chromatograph coupled to a triple quadrupole mass spectrometer. It is intended for poorly volatile, polar or thermolabile compounds that cannot be analyzed by gas chromatography.

MAIN FEATURES

- Analyzer: triple quadrupole with UFsweeper III collision cell
- Mass range: m/z 2 to 2000
- Scan speed: up to 30,000 u/s, with a 0.1 u step and no loss of mass accuracy
- MRM speed: up to 555 channels per second
- Positive/negative polarity switching: 5 ms
- Ionization: heated ESI probe; also accepts APCI and DUIS depending on configuration
- Acquisition modes: Q1 and Q3 scan/SIM, MRM, product ion scan, precursor ion scan and neutral loss scan
- Associated chromatograph: UHPLC, compatible with sub-2 µm particle columns
- Sensitivity: reproducible quantification at attogram level in complex matrices

MAIN APPLICATIONS

- Determination of emerging pollutants, pharmaceuticals and polar pesticides in water
- High sensitivity environmental analytical services
- Identification and quantification of bioactive compounds in natural products
- Monitoring of functionalization products and their derivatives
- Analysis of thermolabile compounds that cannot be analyzed by GC

ASSOCIATED CAPABILITIES AND SERVICE

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