

LIQUID CHROMATOGRAPHY MASS SPECTROMETER (LC-MS-MS)



Make : Thermo Scientific , USA

Model: LCQ Fleet and TSQ Quantum Access with Surveyor Plus HPLC System

Brief Description:

LC-MS-MS is useful for rapid compound detection and structural identification. It has ability to scan for more than 300 analytes in a single experiment and with fast positive and negative switching. It is very much useful for multi residue screening.

Specification

LCQ Fleet Ion Trap LC/MSⁿ

- Mass range: 50-2000 amu.
- MSⁿ , for n=1 through 10.
- ESI source, APCI source.

- Enhanced sensitivity and ruggedness.
- Differential- pumped vacuum system to 10^{-5} torr.
- Sweep gas TM reduces chemical noise.
- Removable metal ion capillary tube provides vent free maintenance.

TSQ Quantum Access TM

- Mass range: 30-3000 amu.
- Zero cross-talk collision cell-eliminate false positives.
- H-SRM dwell time of 2ms-quantitate hundreds of compounds in a single run for multi-residue screening.
- Robust and sensitive ionization sources.
- ESI source, APCI source

Surveyor Plus HPLC system with Auto sampler and PDA Detector

- Pump: dual piston delivery system, built-in vacuum degasser.
- Pressure range: 0 to 5800 PSI (0 to 400 bar) at flow rates upto 5 ml/min.
- 0 to 200 bar at flow rates greater than 5 ml/min.
- Operating temperature: 10⁰c to 40⁰c.
- Quaternary low pressure system.

Application

- Rapid and reliable for compound detection and structural identification.
- Useful for identification of drugs, proteins peptides and non volatile compounds.
- Wide variety of application including pharmaceuticals, environmental, food safety, clinical research and forensics
- Identification of natural products.
- Xcalibur TM for data system
- Networks: Metabolite identification
- Mass Frontier : Spectral management tools.