

Liquid Chromatography–Mass Spectrometry System

Liquid chromatography–mass spectrometry (LC–MS) enables detailed characterization of complex liquid samples that cannot be analyzed by gas-phase techniques. The method is particularly suitable for polar, non-volatile, and thermally unstable organic molecules, providing molecular-level insight alongside reliable quantitative data.

The LC–MS platform is used for routine and advanced analysis of organic compounds across a wide range of application areas. It supports the identification of unknown substances based on molecular ion signals and fragmentation patterns, as well as the accurate determination of concentrations using calibrated methods. The system is well-suited for purity evaluation, impurity and degradation profiling, and metabolite analysis in chemically complex matrices. Method-driven operation ensures high repeatability and analytical robustness.



Key Features

- **Qualitative and quantitative LC–MS analysis of polar and non-volatile compounds**
- **Suitable for thermally unstable and complex organic molecules**
- **Molecular mass–based compound identification (m/z)**
- **Purity testing and degradation/impurity profiling**
- **Applicable to pharmaceutical, biological, environmental, and food samples**



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