LC MS MS Acquisition Parameters & Best Practices — Hands-on

Learn to configure LC MS MS platforms for robust metabolomics and lipidomics data acquisition. From source tuning and chromatographic gradients to DDA/DIA and MRM/PRM methods, you will design runs that maximize coverage and data quality for downstream processing.

LC MS MS Acquisition Parameters & Best Practices

Help Desk · WhatsApp

Session Index

Session 1

Fee: Rs 8800 Apply Now

LC MS MS Platforms & Ionization

LC MS MS hardware overview

triple quadrupole **Q TOF and Orbitrap** **hybrid instruments**

Ion sources and polarity switching

ESI and APCI basics **positive and negative mode** **polarity switching trade offs**

Source tuning and inlet conditions

spray voltage and gas flows | temperature and desolvation | contamination prevention

Session 2

Fee: Rs 11800 Apply Now

Chromatographic Methods & Gradients

Columns and stationary phases for metabolomics

reversed phase | HILIC | mixed mode options

Mobile phases and additives

buffer selection | pH and volatility | ionization friendly choices

Gradient design and flow parameters

gradient shape and length | flow rate and backpressure | column temperature control

Session 3

Fee: Rs 14800 Apply Now

MS MS Acquisition Modes (DDA/DIA/MRM/PRM)

Full scan and DDA setup

scan ranges | top N and dynamic exclusion | isolation windows

DIA windows and library friendly settings

fixed versus variable windows | cycle time management | collision energy schemes

MRM and PRM method design

transition selection | dwell time and scheduling | LOD and LOQ thinking

Session 4

Fee: Rs 18800 Apply Now

System Suitability, QC & Best Practices

System suitability tests for metabolomics

mixture and standard checks

Performance metrics and run monitoring

mass accuracy and resolution | sensitivity and precision | RT and peak shape checks

Maintenance, troubleshooting and documentation

common failure modes | cleaning and upkeep | method templates and logs