LC–MS and MS/MS for Glycan Profiling — Hands-on

Learn how to design and execute liquid chromatography–mass spectrometry workflows tailored for glycan analysis. This module walks through LC method selection, gradient design, MS and MS/MS acquisition strategies and basic QC checks for confident glycan profiling in research and biopharma labs.

LC–MS and MS/MS for Glycan Profiling

Help Desk · WhatsApp

Session Index

Session 1 — LC–MS Fundamentals for Glycans | Session 2 — Chromatographic Methods and Gradients | Session 3 — MS/MS Fragmentation and Data Acquisition | Session 4 — Mini Capstone: Glycan LC–MS Profiling Workflow

Session 1

Fee: Rs 8800 Apply Now

LC–MS Fundamentals for Glycans

Instrument components and ionization basics

LC modules and pumps | **ESI source overview** | **quadrupole and TOF concepts**

Ions, adducts and charge states for glycans

protonated and sodiated species | **label dependent behavior** | **in source decay awareness**

Key LC–MS parameters and system suitability

flow rate and injection volume | **source temperature**

and voltages | test mixes and performance checks

Session 2

Fee: Rs 11800 Apply Now

Chromatographic Methods and Gradients

Column chemistries for glycan separations

HILIC columns | RP and mixed mode options | particle size and dimensions

Mobile phases, buffers and additives

organic solvent choices | pH and buffer systems | MS friendly additives

Gradient design, run time and carry over control

shallow vs steep gradients | wash and re equilibration steps | blank and carry over checks

Session 3

Fee: Rs 14800 Apply Now

MS/MS Fragmentation and Data Acquisition

MS1 acquisition and scan strategies

full scan settings | resolution and scan speed | dynamic range considerations

Fragmentation methods for glycans

CID and HCD basics | B/Y and cross ring ions | label dependent patterns

DDA and targeted acquisition for glycans

top N methods and exclusion lists | targeted MS/MS of known species | basic DIA concepts for glycomics

Session 4

Fee: Rs 18800 Apply Now

Mini Capstone: Glycan LC–MS Profiling Workflow

Designing an LC–MS method for a glycan panel

Theory plus Practical

Running standards and real samples with QC

system suitability criteria retention time tracking signal quality checks

Deliverables: method sheet, run log and raw data overview

PDF or DOC method description run sequence table basic chromatogram snapshots