Targeted Metabolomics MRM & PRM Quantification — Hands-on

Build robust targeted metabolomics assays using MRM and PRM. You will work through panel design, transition selection, internal standard strategies, calibration curves, validation parameters and reporting so that your targeted methods are ready for translational, preclinical or QC contexts.

Targeted Metabolomics MRM & PRM Quantification

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Session Index

Session 1

Fee: Rs 8800 Apply Now

Targeted Metabolomics Concepts & Panel Design

When and why to use targeted metabolomics

hypothesis driven questions **clinical and preclinical studies** **method translation from discovery**

Panel design and metabolite selection

pathway centric panels **disease or toxicity markers** **coverage versus runtime trade offs**

Standards, reference materials and documentation

neat standards and mixes | reference matrices | panel specification sheets

Session 2

Fee: Rs 11800 Apply Now

MRM & PRM Method Development

Transition selection and optimization

precursor ion choice | product ion selection | collision energy optimization

Scheduling and dwell time strategies

scheduled MRM windows | cycle time targets | balancing sensitivity and coverage

Chromatographic and source conditions for robust quant

coelution checks | matrix and ion suppression awareness | system suitability for targeted runs

Session 3

Fee: Rs 14800 Apply Now

Calibration, Internal Standards & Quant Workflows

Internal standard strategies

isotopically labeled standards | class specific standards | spiking and recovery checks

Calibration curve construction and fitting

concentration ranges | weighting schemes | back calculation and residuals

Quantitation workflows and batch calculations

using curve fits for unknowns | handling dilution

factors | preparing analysis ready concentration tables

Session 4

Fee: Rs 18800 Apply Now

Validation, QC Metrics & Reporting

Method validation parameters and acceptance criteria

accuracy and precision | LOD LOQ and linearity | carryover and stability checks

Run level QC monitoring and flags

QC samples and control charts | fail criteria and repeats | batch acceptance decisions

Reporting concentrations and documenting methods

summary tables by analyte | plots for stakeholders | method and validation reports