

NTHRYS WORKSHOPS.

Clinical Chromatography and Sample Preparation Workshop

Workshop Index Duration: 3 DAYS

Use the index to navigate the workshop sections and open quick reference modals for scope, audience, outcomes, delivery, policies, and FAQs.

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Quick Summary

Clinical Chemistry Applied Learning Quality Focused Foundations of Clinical Chromatography and Sample Preparation

Learn the principles of chromatographic separation, retention behavior, and analytical workflow planning for clinical testing applications.

Separation Principles Clinical Testing

Understand sample preparation requirements including extraction, cleanup, derivatization awareness, and matrix management.

Sample Cleanup Matrix Control

Review common chromatographic formats used in clinical laboratories and how method choice supports measurement quality.

Method ChoiceMeasurement Quality

Examine mobile phase basics, column considerations, detector response, and run consistency during routine analysis.

Detector ResponseRun Consistency

Connect chromatographic practice to troubleshooting, result confidence, and quality-oriented clinical laboratory performance.

TroubleshootingResult Confidence

Overview

Analytical MethodsInteractive LearningApplied Outcomes

Workshop Scope, Audience Profile, and Learning Outcomes

This workshop introduces chromatographic techniques as structured tools for selective separation and clinically relevant analytical review.

Selective SeparationAnalytical Review

Participants explore sample preparation logic, extraction strategy, cleanup steps, chromatographic parameters, and detector considerations.

Extraction StrategyDetector Considerations

The session suits students, laboratory technicians, analysts, and staff seeking stronger foundations in clinical chromatography workflows.

StudentsLaboratory Staff

By the end of the workshop, attendees can explain preparation steps, interpret chromatographic behavior, and support workflow consistency.

Workflow ConsistencyChromatographic Behavior

Attendees also learn to recognize contamination, carryover, poor

resolution, baseline shifts, and preparation-related issues.

Poor Resolution Baseline Shifts

Outcome discussions strengthen confidence in documentation, troubleshooting, and clinically aligned method handling.

Documentation Method Handling

Agenda

Technique Review Hands On Practice Ready

Agenda Flow and Hands-on Demonstrations

Modules cover chromatographic fundamentals, stationary and mobile phase roles, and method workflow planning.

Mobile Phase Workflow Planning

Participants review specimen handling, extraction choices, filtration awareness, preparation consistency, and run setup basics.

Specimen Handling Run Setup

Hands-on discussions demonstrate sample preparation logic, injection considerations, peak review, and separation assessment.

Peak Review Separation Assessment

Exercises include identifying carryover, contamination patterns, retention shifts, poor peak shape, and matrix effects.

Carryover Matrix Effects

Case-based practice links sample preparation quality to chromatographic performance, corrective action, and result reliability.

Corrective Action Result Reliability

The session concludes with documentation discipline,

maintenance awareness, and workflow standardization points.

Standardization Maintenance Awareness

Deliverables

Reference Support Workshop Output Learner Ready

Deliverables, Support Material, and Frequently Asked Questions

Participants receive structured notes on chromatographic principles, sample preparation steps, and method quality checkpoints.

Study Notes Quality Checkpoints

Reference sheets summarize extraction logic, cleanup planning, separation review, and troubleshooting pathways.

Reference Sheets Troubleshooting Pathways

FAQ coverage explains whether prior chromatography experience is needed and how beginners can follow the workshop flow.

Beginner Friendly Workshop Flow

Additional FAQs address sample handling, cleanup selection, run consistency, peak interpretation, and preparation quality.

Peak Interpretation Preparation Quality

The workshop helps learners build stronger technical language for chromatography and clinical laboratory reporting.

Technical Language Lab Reporting

Participants leave with a clearer framework for chromatographic applications, workflow review, and analytical confidence.

Workflow Review Analytical Confidence

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