



HANDS ON TRAINING WORKSHOP ON HPLC

Module One - Introduction to HPLC.

Topics include: Introduction to chromatography and chromatographic process-four modes of chromatography - reversed-phase, normal phase, ion exchange and size exclusion, Instrument operation- each part of an HPLC instrument in detail – including the solvent delivery system, sample injection, connecting tubing and fittings, commonly used detectors

Module Two - Method Development

Topics include: Sample solvents, Column selection, Partition coefficient, Mobile phase selection, Gradients, Effect of flow rate, Temperature effects and Sample preparation.

Module Three - System Suitability

Topics include: Resolution, Efficiency, Asymmetry, Capacity factor, Selectivity, Signal to noise ratio, Precision and accuracy, System suitability limits and manual calculation of parameters, setting up software to perform system suitability calculations

Module Four - Care of the HPLC System and Columns

Topics include: Storing of the HPLC system, Column storage, Changing between mobile phases, Developing a clean-up and shut down method.

Module Five - Troubleshooting

Topics include: Order of troubleshooting, Examples of common problems and causes, Practical examples.

Module Six - Routine Maintenance

Topics include: Theory AND PRACTICAL maintenance of Pumps, Filters, Injector, and Detector.

Module Seven - Hardware / System Validation.

Topics include: Hardware validation for pumps, degassers, auto samplers, column ovens and detectors, and overall system check.

Module Eight - Method Validation.

Topics include: Accuracy, Precision, Intermediate Precision, Specificity, Detection limit, Quantization Limit, Linearity, Robustness, Acceptance criteria, Samples with more than one active

Eligibility : Scholars from Biotechnology / Microbiology / Bio-Chemistry / Pharmacy / Forensic Science / Nanotechnology / Applied Chemistry / Industrial Chemistry Stream etc.

Duration : Two Days (Saturday & Sunday-Full Time

Fee : Rs 3,000 / -

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