

Analytical Instruments Testing Series

TRAINING ON LC-MS TRIPLE QUAD

Liquid Chromatography-Mass Spectrometry is one of the most important tools for that has a very high sensitivity and selectivity. It is suitable for the analysis of large, polar, ionic, thermally unstable and non-volatile compounds. A mass spectrometer combined with a liquid chromatograph can detect masses characteristic of a compound. Spectro conduct training programs for providing general introduction of LC-MS System under which full knowledge of detailed description of the instruments, its theory and the use of their accessories is imparted.

Objective of the Training

The program is well-designed for those who are in search of acquiring skills for operating LC-MS/MS. We provide training on LC-MS/MS (6410/Agilent Technologies) according to the specified protocols, design of single Quadrupole, Triple Quadrupole, Data acquisition and Data quantitation. General Hardware and Software, System Evaluation and Method building are discussed in detail.



Training Module for 6 Days

Day 1

Introduction to LC-MS, Theory of Single Quadrupole, Triple Quadrupole, System overview & Ionisation sources, detectors, Collision induced Dissociation, Solvents, buffers & additives used in LC-MS.

Day 2

Tuning and Calibration, Product Ion Scan, MRM Method and HPLC Method.

Day 3

Method Development & Optimization, Introduction to acquisition Software, Worklists.

Day 4

Introduction to Qualitative Software, Quantification Basics, Sensitivity & Linearity of Agilent Triple Quadrupole.

Day 5

Advanced Quantification, Explanation on sample preparation Techniques/ Extraction Techniques with Demonstration.

Day 6

Maintenance of LC-MS and Troubleshooting covering the problems relating to Detector, Column, Fittings, Pumps, Mobile Phase, Tuning, Nebulization etc.



Minimum Eligibility Required:

The trainee must possess a graduation degree in science field or must be pursuing the same.

Benefits of the Training:

The training is beneficial for the person who wants to mark his presence in industries which relates to drugs, food and dairy products, dyes, etc.

Please Note:

- ☞ We also conduct customized training programs on request.
- ☞ The certificate will be provided only after clearing a test.



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