Bringing Scientific & Technical Resources to the African Continent

Chrom Africa Instrumentation Services Limited
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LC-LCMS BEST PRACTICES IN METHOD DEVELOPMENT/OPERATION AND TROUBLESHOOTING 22nd – 26th July 2024.

Who Should Attend

LC MS-MS is an instrument which has a wide scope in industries which manufactures or deals with drugs, dyes, food and dairy products, etc. The training is profitable for those individuals who are working to enter these industries.

What You Will Learn

- An overview of LC –MS applications, including food, environmental, industrial, GPC, andbiopharmaceutical analysis
- Concepts, perspectives, best practices, and potential issues surrounding UHPLC
- Fundamentals of LC-MS method development and easier approaches
- Overview of method validation and transfer
  Standard operating procedures for LC-MS modules, and troubleshooting strategies

DAY 1	EVENTS
09.00-09.30	Registration and climate setting
09.30-10.00	Introduction to LC-MS
10.00-10.30	***Tea Break***
11.00-12.30	Theory of Single Quadrupole, Triple Quadrupole,System overview & Ionization sources, detectors, Collision induced Dissociation, Solvents, buffers & additives used in LC-MS
12.30-14.00	***Lunch Break***
14.00-16.30	MS operation, including the operation of the most popular LC-MS interfaces Operation in MS, MS/MS, and MS/MS/MS modes
DAY 2	
9.00-10.30	Tuning and Calibration, Product Ion Scan, MRM Method and HPLC Method
10.30-11.00	***Tea Break***
11.00-12.30	Ion production, fragmentation, and detection MS calibration and optimization.
12.30-14.00	***Lunch Break***
14.00-16.30	Creating method on Software and validating the method
DAY 3	
9.00-10.30	LC-MS Sample Preparation for Pesticide Analysis
10.30-11.00	***Tea Break***
11.00-12.30	LC –MS Sample Preparation for analysis of Organic pollutants
12.30-14.00	***Lunch Break***

14.00-15.30	Creating sequence for multiple sample analysis of pesticide residue
DAY 4	
9.00-10.30	Developing calibration curve. Method optimizations and the validations of parameters such as LOD, LOQ, accuracy, precision, linearity and robustness in LC-MS-MS
10.30-11.00	***Tea Break***
11.00-12.30	Sample analysis of Pesticide residue in Water samples,Quantitative analysis of Organic pollutants
12.30-14.00	***Lunch Break***
14.00-15.30	Quantitative data analysis with set files Quantitation using internal standards
DAY 5	
9.00-10.30	Discussion of the results
10.30-11.00	***Tea Break***
11.00-12.30	Maintenance and Troubleshooting – Effectively detecting, troubleshootingand rectifying common issues – Performing instrument maintenance Carrying out relevant diagnostic tests – Experience from hands-on laboratory exercises.
12.30-14.00	***Lunch Break***
14.00-15.00	Directors speech and issue of certificates

DATES	COST	VENUE
22nd – 26th July 2024 **Deadline 15th July 2024**	**Kes. 92,800.00 or USD 928.00**	**NAIROBI**