Agenda for 2 day LC-MS method validation at SCIEX

SCIEX training courses follow the proven spaced learning approach to maximize learning retention. The training process includes a blend of instructor-led training, hands-on laboratory exercises and self-paced eLearning provided at a SCIEX location.

Course goals and outcome

This course is designed to provide intermediate to advanced learner with the knowledge necessary to successfully validate an LC-MS/MS assay on SCIEX systems. It is intended for those who have completed a Success Program, or have significant experience with SCIEX LC-MS systems. It is delivered at a SCIEX location by an experienced SCIEX instructor using a combination of instructor-led and hands-on approaches.

Upon completion of the course, you should understand validation principles and parameters, be able to perform sample preparation, review data, and troubleshoot some common issues encountered during method validation.

This course offers a workflow certificate upon completion of a final knowledge assessment.

Course agenda

DAY 1: 9.00 – 17:00*

- **Lecture**: Introduction to method validation
- **Lab exercise**: Selectivity and specificity
- **Lecture**: Linearity, sensitivity, accuracy and precision
- **Lab exercise**: Linearity, sensitivity, accuracy and precision
- **Lecture**: Recovery, matrix effects and dilution effects
- **Lab exercise**: Recovery, matrix effects and dilution effects in method validation

DAY 2: 9.00 – 17:00*

- **Lecture**: Stability
- **Lab exercise**: Standard stability in method validation
- **Lecture**: Carryover and contamination
- **Lab exercise**: Carryover and contamination in method validation
- **Lecture**: System suitability test
- **Lab exercise**: LC-MS/MS system suitability test in method validation
- **Lecture (optional)**: Robustness for GMP method validation
- **Lecture (optional)**: Correlation and method comparison
- **Lecture (optional)**: Audit trail overview
- **Discussion group**: Troubleshooting validation issues

**Timings are approximate and may vary*

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Headquarters
500 Old Connecticut Path | Framingham, MA 01701 USA
Phone 508-383-7700
sciex.com

International Sales
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sciex.com/offices