

Syllabus for 3 day quantitative analysis of pesticides in cannabis products 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 focused on quantitative pesticide analysis in cannabis products using SCIEX Triple Quad and QTRAP instruments, and is intended for new SCIEX LC-MS instrument users working in the cannabis industry, or non-SCIEX users seeking a detailed overview of pesticide analysis in cannabis products. The course is delivered at a SCIEX location by an experienced SCIEX instructor using a combination of instructor-led and hands-on approaches.

The course covers instrument tuning and calibration, general compound optimization and quantitation. Specific topics for cannabis pesticide testing include sample preparation of cannabis products, basic chromatographic method development, analysis of cannabis matrices for pesticides, and troubleshooting.

Upon completion of the course, you should be able to perform source and compound optimization, create Scheduled MRM acquisition methods, perform quantitation, troubleshoot and maintain your system. You should be able to transfer the principles and practices learned throughout the course and apply them to your specific workflow.

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

Training program overview

Your training includes the following:

- 3 days of instructor-led and hands-on training provided at a SCIEX location by an experienced instructor
- Related self-paced eLearning courses, lectures, reference material and lab exercises
- Access to SCIEX Now Learning Hub database of >100 eLearning courses

- Access to SCIEX Now online support tools
- Workflow certificate upon successful completion of final exam and permanent access to all course materials for reference
- P.A.C.E.[®] Continuing Education Credits

Instructor-led training topics

- Fundamentals of LC-MS/MS
 - Electrospray ionization
 - Different MS and MS/MS scans
- Mass spectrometer tuning and calibration
- Source & compound optimization
 - Optimization of source conditions for pesticide analysis
 - Compound optimization
- Acquisition method creation and batch submission
 - Scheduled MRM method creation
 - Acquisition batch submission
- Cannabis product sample preparation and analysis
 - Practical suggestions for sample preparation
 - Analysis of pesticide-fortified cannabis extract
- Quantitation and data analysis
 - Fundamentals of LC-MS/MS quantitative analysis
 - Quantitation of pesticide-fortified cannabis extract
- Basic instrument maintenance
 - Troubleshooting and best practices
 - Computer and MS maintenance

P.A.C.E.[®] certification

SCIEX is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.[®] Program. Learners interested in obtaining a P.A.C.E.[®] certificate and P.A.C.E.[®] accreditation for taking this course (equal to 18 P.A.C.E.[®] credits) must attend the entire training session and complete a brief evaluation survey.

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