HPTLC Workshop

2–3 June 2026
at BCON Instruments
in the Netherlands

HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHY

CAMAG®

BCON Instruments

OVERVIEW

Workshop Objectives

This workshop aims to equip participants with a solid understanding of standardized HPTLC practices while introducing advanced tools for data interpretation, enabling accurate analysis, qualitative and quantitative evaluation, chemometric analysis, and classification of complex chemical profiles.

Who Should Attend?

University graduates, laboratory technicians/ assistants, and scientists.

Requirements

Experience with analytical laboratory work. Basic understanding of chromatography.

Program Overview

The program features a dynamic blend of theoretical lectures, practical sessions, and collaborative discussions, ensuring participants can immediately apply new skills to their laboratory workflows.

1. Foundations of Standardized HPTLC

- **Method Standardization**:
  Understand the critical parameters of standardized HPTLC analysis.
- **Laboratory Best Practices**:
  Precision techniques for plate handling, automated sample application, controlled development, and derivatization.
- **Workflow Optimization**:
  Mastering instrument operation and *visionCATS* software for streamlined data management.
- **Practical Application**:
  Execution of real-world HPTLC analysis.

2. Data Evaluation

- **Qualitative & Quantitative Analysis**:
  Interpretation of chromatograms for precise identity verification and content determination.
- **Quality Assurance & Compliance**:
  Implementing the built-in tools for **System Suitability Test** (SST) and **Limit Test**.

3. Spectrum Library and Chemometrics

- **Spectral Identification**:
  Leveraging the *visionCATS*-integrated UV/Vis Spectrum Library for rapid compound verification and spectral matching.
- **Advanced Chemometrics**:
  Mastering the **NEW** *visionCATS* Chemometric Tools.
  - How to utilize chemical profiles for unsupervised clustering.
  - Detect adulteration and outliers within complex botanical or chemical datasets.
  - Deploy predictive classification models for automated sample identification.

GENERAL INFO

Date

2–3 June 2026

Duration

Two-day intensive workshop

Costs and Registration

- The fee for the two-day course is EUR 1200,-
  Lunches and beverages are included.
- The number of participants is limited.
- Participation will be allocated and confirmed in order of receipt of registration.
- BCON Instruments reserves the right to cancel a workshop up to 14 days prior to the commencement.
- Customer cancellations or change of booking: 50% will be charged within four weeks before the course starts; in the last week, 100% will be charged.

Travel costs, hotel and evening meals are not included and have to be settled directly by the workshop participant.

BCON Instruments can assist with hotel reservations.

Location

BCON Instruments BV
Nieuwlandseweg 5
4697 RK, Sint Annaland
The Netherlands

The Instructors

Dr. Ehab Mahran

has been a scientist and project manager at CAMAG Laboratory since 2022, specializing in HPTLC, NMR, and pharmaceutical method development. He holds a PhD in Natural Products Chemistry and has international experience in research, data analysis, and scientific training.

Thorsten Schleuter, Dipl.-Ing. (FH)

studied Chemical Engineering in Jülich, Germany. He is Sales Manager at CAMAG.

Individual training courses

For individual training on specific topics and for software and equipment training, please contact us at sales@camag.com.