

HPTLC for the analysis of botanical dietary supplements

**To be held in Wilmington, NC on March 25-27, 2009 and
Milwaukee, WI on April 2-3, 2009**

DAY 1 Basic concepts

- Lectures:**
- L1-1 Modern TLC and HPTLC
 - Parameters of the individual TLC steps
 - The state of the art in HPTLC
 - Standardized methodology and SOP for HPTLC
 - HPTLC in a cGMP environment
 - L1-2 Utilization of TLC-Fingerprints for ID of botanicals
 - TLC in the pharmacopoeias
 - Botanical ID vs. chemical profile
 - Requirements for “HPTLC fingerprints”
 - Working with compendial methods
- Demonstrations**
- D1-1: Practical aspects of modern TLC/HPTLC
 - The tools
 - HPTLC Methodology
 - The software
 - Creating methods
 - D1-2: Identification of botanicals by HPTLC
 - Running an analysis
 - Performing image comparison
 - Video - Densitometry
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DAY 2 Method development and troubleshooting

- Lectures:**
- L2-1 Optimizing the separation
 - Separation in HPTLC
 - Stationary and mobile phase
 - General optimizing strategies
 - L2-2 Development and validation of a Method
 - Setting the goal
 - Sample preparation
 - The CAMAG-Optimization Scheme
 - Validation concepts
- Demonstration:**
- D2-1: Method Development and Validation
 - SOP for Method evaluation / development?
 - Validation protocol
 - Method transfer

**Round-table
discussion:**

Troubleshooting

- HPTLC and Software issues
- Interpretation of results
- BRM vs. reference images

DAY 3 (optional)

Work with your samples in our lab using the latest HPTLC instrumentation offered by CAMAG.

This is for the Wilmington, NC course only!