

CSIR-CIMAP FIVE DAYS SKILL DEVELOPMENT





TRAINING ON

PRACTICAL ASPECTS OF LIQUID CHROMATOGRAPHY TECHNIQUES

[PALCT-2022]

[07 November - 11 November 2022]





CONTACT US

Director

CSIR-Central Institute of Medicinal and

Aromatic Plants, PO- CIMAP,

Lucknow-226015

Phone: 0522-2718505

Fax: 0522-2719072

E-mail: director@cimap.res.in **Website:** www.cimap.res.in

Skill development: l.rahman@cimap.res.in

Course coordinator Dr. Karuna Shanker

Senior Principal Scientist Analytical Chemistry Department

CSIR-CIMAP, Lucknow-226015

Phone: 0522-2718580 Mob. 9415329718

E-mail: k.shanker@cimap.res.in

Techniques and Topics to be Covered

UPLC/HPLC

- Instrumentation
- HPLC/UPLC method development
- Transforming HPLC method to UPLC
- Column Chemistry
- Preparation of test solutions
- Directions for analysis
- Interpretation of quantitative analysis
- **Documentation of Results**

HPTLC

- **HPTLC** method parameters
- Different stationary phase and uses thereof
- Instrumentation
- Directions for analysis
- Interpretation of quantitative analysis

Preparative HPLC

- HPLC method parameters
- Method scale-up from analytical HPLC **pHPLC**
- Columns and stationary phas
- Mobile phase
- Instrumentation

Flash Chromatography

Uses of the technique for upscaling/ purification

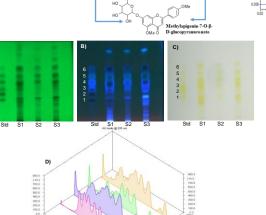
Ion-Chromatography

- Principles, Mechanism & Instrumentation
- Applications in MAPs
- Carbohydrates, Organic acids
- **Anions & Cations**

Size Exclusion Chromatography

- Principles & Mechanism
- Key points for Separation
- Column Selection
- Application in Natural Product





TRAINING PROGRAM

An outstanding platform to get an exposure to UPLC, HPLC, HPTLC, SEC & liauid Flash chromatographic techniques and upscaling of the components by preparative HPLC will be offered pertinent to medicinal plants and prepared products thereof. A complete theoretical as well as practical knowledge on these maintenance techniques. related instruments and method development can be extracted from this training.

GET THE AUTHENTIC RESULTS

The present training is expected to intensify the knowledge on subject and allow person to apply modern liquid chromatographic techniques in different application. and the role of each module in multi component instrumentation. This course will enable candidates to develop HPLC methods and transferring the parameters adaptation of documented methods in their own application. Additionally, the training will enable you to updates with latest International guidelines (ICH & USFDA) of method developments:

EXPECTED OUTCOME

- Better understanding of the parameters provided in any in a documented analytical method.
- Follow pertinent method to arrange a system for analysis/upscaling.
- Perform an analytical method and obtain results of chromatographic analysis.
- Interpret the acquired chromatograms from UPLC/HPLC/HPTLC analysis.
- Calculate results of analysis of the analytical results.
- Implement common measures to prevent malfunctioning of instruments.

Do's and Don'ts of HPLC/HPTLC analysis.
Application of HPLC and HPTLC method in herb QC/QA operations



MORE ABOUT TRAINING

Duration : 05 days (Residential).

Batch size : 20 [First come first served basis]

Mode of : Interested candidates have to submit the Registration Form

Registration along with course fee (available on CIMAP website).

Registration : Students: INR 7,500/-;

Fee Industries/Institution sponsored: INR 15,000/-

Payment : The demand draft in favour of "Director, CSIR-CIMAP,

mode Lucknow "payable at Lucknow or through online transfer.

Bank Detail for online transfer-

Account No. : 30267691783

Account holder : Director, CIMAP, Lucknow : State Bank of India, Main Branch,

Hazaratganj, Lucknow

 Branch Code
 : 000125

 IFSC code
 : SBIN0000125

 MICR code
 226002002

Note: No Refund is permissible in any circumstances. The selected candidates will be informed on phone/email. Accommodations will be provided in our guest house on twin

Accommoda : Accommodation sharing basis.

Dates 07 November - 11 November, 2022

Timings : 9:30 AM to 6:00 PM