HPLC* III: Method Development of Peptides and Proteins (Third in a 3-Part Series) *(High Performance Liquid Chromatography)

Location: Your Computer  ID# 2681

Maximize learning and minimize expense: Register for all 3 parts and save $150 OR take any one as a stand-alone course.

WHO SHOULD ATTEND

This online training will be most useful for people with some HPLC experience who are interested in improving their HPLC methods or personnel who are developing new HPLC methods for Proteins: Biopharmaceuticals, food sciences or any other industry analyzing proteins would be of interest.

The potential job functions would be entry to mid-level laboratory personnel with some HPLC experience, or laboratory personnel with degrees in other disciplines who need to start developing HPLC methods for proteins.

The departments in companies involved with the use of HPLC in research/development or quality control/quality assurance should insist their personnel attend if they are not being trained in-house or as a supplement to their in-house training.

LEARNING OBJECTIVES

Upon completion of this training, you will be able to:
- Explain the basic theory and purpose behind multiple protein and peptide HPLC Methods
- Begin basic development of protein and peptide HPLC Methods
- Optimize and evaluate the performance of protein and peptide HPLC Methods
- Troubleshoot and prevent basic issues within HPLC Methods

COURSE DESCRIPTION

This 90-minute accredited course will include discussions of theory of SEC, Reversed Phase, Ion-Exchange, Hydrophobic Interaction and Protein affinity Chromatography. It will also give basic starting points on method development and method evaluation of these methods. The course is designed to give personnel with some HPLC experience a broader scope for how to use this invaluable analytical tool.

Review of Learning Objectives

Module 1: SEC Development
- The basic theory and purpose behind SEC-HPLC
- Column selection and your molecule
- Guard columns and sample preparation
- Basic Method Starting point and appropriate method controls including integration control
- Effects of flow rate, temperature and mobile phase
- Method evaluation and optimization
- Column care and extending column life

Module 2: Reversed Phase (RP) Method Development and Hydrophobic Interaction Chromatography (HIC)
- Overview of reverse RP for Proteins
  - Peptides
  - Basic theory of separations
  - Tryptic digest and peptide map
  - Starting conditions and limitations
  - Optimizing the gradient, temperature and flow rate
  - Proper controls for RP Method
- Overview of HIC
  - Basic theory of separation
  - When to use HIC

Module 3: Ion Exchange and Affinity Methods
- Ion-Exchange (Anion Exchange and Cation Exchange)
  - Column, guard column and mobile phase selections
  - Preparation, Starting conditions and optimization
- Overview of Affinity Chromatography
  - Protein Affinity method verses UV
  - Starting point, proper standard, optimizing

Question and Answer Session

For more information see reverse side
WHO WE ARE

The Center for Professional Advancement (CfPA) is the largest accredited technical training organization in the world with a curriculum of approximately four hundred and fifty short courses in 15 industries including Pharmaceutical, Biotechnology, Medical Device, Chemical, cosmetics, Food and more.

Since our founding in 1967, we have successfully trained nearly a half million people worldwide in topics ranging from basic and introductory concepts to new advances and cutting-edge technology, and current U.S. and European regulations. CfPA courses are offered in a variety of formats – Public offering, Client Site and Online – to fit you or your company’s training needs.

For more information visit our website at www.cfpa.com

COURSES OF INTEREST

- Analytical Methods Validation for FDA Compliance
course ID# 1887

- Developing Specifications for Drug Substances and Drug Products
course ID# 1918

- Drug Product Stability and Shelf-Life
course ID# 599

- Global QA/QC for Biopharmaceuticals, Vaccines and Other Biologics
course ID# 2535

- HPLC I: Basics-101–An Online Course
course ID# 2679

- HPLC II: Method Development–An Online Course
course ID# 2680

- OTC Stability Program for FDA Compliance
course ID# 2650

- Stability Testing for Protein Drug Products & Substances
course ID# 2594

COURSE DIRECTOR

Rachel Monsef, Consultant to the Pharmaceutical Industry

Rachel Monsef is an analytical chemist in the pharmaceutical industry who has 15 years’ experience working with many types of assay for all stages of drug development. She has been responsible for method development, method qualification, method validations, assay transfer, characterization work, and stability studies. She has also worked with manufacturing groups to develop and perform assays to support their efforts. She has previously worked for Seattle Genetics and Alder Biopharmaceuticals.

Ms Monsef received her Bachelor of Science in Chemistry from the University of Washington.

ACCREDITATIONS

The Center for Professional Advancement has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500 McLean, VA 22102. In obtaining this approval, The Center for Professional Advancement has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. The Center for Professional Advancement is therefore authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards. CEU will be awarded for participation in The Center for Professional Advancement’s courses at the rate of .1 CEU per contact hour. CEU will be awarded only upon successful completion of the entire course and 70% accuracy in the required Learners’ Assessment.

TUITION AND REGISTRATION

TUITION*: Single Rate: U.S.$295.00 per person Group Rate: U.S.$245.00 per person**

Register at www.cfpa.com. Enter Course ID #2681 into Search. To register click Register Now.

For Questions and Information call Customer Service at 732-613-4500.

Please Note: Multiple participants are not authorized to share access provided to a single registrant, a single dedicated seat license must be purchased for each individual. CfPA reserves the right to cancel access or collect the group rate payment if this requirement has been violated. Only registered participants will receive accreditation.

System Requirements: PC-based attendees: Windows(R) 7, Vista, XP or 2003 Server/Macintosh(R)-based attendees: Mac OS(R) X 10.4.11 (Tiger(R)) or newer

TERMS AND CONDITIONS

*Payment: Tuition payable in US funds net of all charges. Payment is due at time of registration in the form of a credit card. Please contact CfPA’s Customer Service for other payment options.

**Group Rate: The Group Rate is for two or more enrollments, up to five registering from the same company at the same time. For groups of six or more, please contact Customer Service for group pricing.

Cancellations/No Show: “Live”- Registrants may cancel up to two working days prior to the course start date and will receive a letter of credit to be used towards a future course up to one year from date of issuance. No credit will be issued for no-shows and/or cancellations less than two working days prior to the course. “On-Demand” - No refund or credit will be issued for no-shows and/or cancellations of on-demand training courses. CfPA is not responsible for any outside related costs incurred by registrant’s cancellation.

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