Characterization Assays for Proteins and Peptides: An Overview

Location: Your Computer  ID # 2745

WHO SHOULD ATTEND

This online training will be most useful for people with some analytical experience who are interested in broadening their understanding of characterization methods of Proteins and Peptides: 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 lab experience, or laboratory personnel with degrees in other disciplines who need to understand protein and peptide characterization.

The departments in companies involved with molecule characterization, Quality Control, Quality Assurance, Analytical Scientist, Research Associates, Engineers and Administrators working in analytical development, Product Development, Manufacturing, Validation, Formulation, and Pre-formulation groups would benefit from this training.

LEARNING OBJECTIVES

Upon completion of this training, you will be able to:

• Interpret data from multiple characterization assays
• Determine which analytical tools are best suited to characterize a protein and peptide
• Discuss different techniques for characterization and how they benefit the industry

COURSE DESCRIPTION

This course will benefit the personnel who are responsible for analytics for proteins and peptides. This 90-minute accredited course will include discussions of characterization methods including a battery of assays used to initially assess a protein or peptide, Glycan analysis, different Mass Spectroscopy techniques, and other techniques that can be used for characterization work. The course is designed to give personnel a broader scope and deeper understanding of characterization of proteins and peptides.

Review of Learning Objectives
Module 1: Protein Peptide Initial Assessment
• Summary of Assays used to do initial characterization
• HPLC Assays:
  – SEC
  – Reversed Phase
  – Peptide Map
• Electrophoresis Assays (Gel verses Capillary Electrophoresis)
  – SDS-PAGE verses CE
  – IEF verses cIEF
• Activity Assays: ELISA or Bioassay

Module 2: Glycan Analysis and Mass Spectroscopy
• Overview of Glycan Analysis
  – Monosaccharide
  – O-linked versus N-linked Assays
• Uses for Mass Spectroscopy
  – Use with Glycan Analysis
  – Use with Peptide map
  – SEC-MALS for aggregate determination

Module 3: Other techniques for Protein Peptide Characterization
• Peptide map using CZE
• OFFGEL Fractionation
• Particulate Matter analysis (Electron Microscope)

Question and Answer Session

For more information see reverse side
Rachel Monsef; Consultant to the pharmaceutical industry

Rachel Monsef is an analytical chemist in the pharmaceutical industry who has 16 years’ experience working with many types of assays for all stages of drug development. She has worked on several projects that required method development all the way through method validations. She has experience with 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, Nastech and has had many different roles at Alder Biopharmaceuticals where she is currently acting as a quality control consultant. Ms. Monsef received her Bachelor of Science in Chemistry from the University of Washington.

**COURSE DIRECTOR**

TUITION AND REGISTRATION

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

**ACCREDITATIONS**

The Center for Professional Advancement has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET). 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 only upon successful completion of the entire course and 70% accuracy in the required Learners’ Assessment. This course offers a total of 1.5 contact hours or .2 CEUs (CEUs rounded up).

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

- Avoiding Pharmaceutical and Biopharmaceutical Data Integrity Problems – An Online Course
  course ID# 2723
- Biopharmaceutical Analytics: From Development to Validation
  course ID# 2729
- Characterization of Proteins for Development and Approval of Protein Pharmaceuticals and Vaccines
  course ID# 2536
- Current Good Tissue Practices: Achieving and Maintaining FDA Compliance
  course ID# 2086
- HPLC (High Performance Liquid Chromatography) I: Basics –101 – An Online Course
  course ID# 2679
- HPLC (High Performance Liquid Chromatography) II: Method Development – An Online Course
  course ID# 2680
- HPLC (High Performance Liquid Chromatography) III: Method Development of Peptides and Proteins – An Online Course
  course ID# 2681
- Stability Testing for Protein Drug Products & Substances
  course ID# 2594

ABOUT ON-DEMAND:

Our pre-recorded on-line training courses are available for viewing at your convenience at your computer. Register for a CfPA on-demand course, your registration will be processed within two (2) business days, after payment and registration are complete you will receive an email from onlinetraining@cfpa.com with your password to access the on-demand course. You will have two (2) business days to view the course. You MUST complete all polls and the course evaluation to receive your accreditation certificate for this course.

TERMS AND CONDITIONS

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**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.