

The Analysis of Protein Therapeutic Drugs by HPLC (1 day)

Who should take this course?

This course is designed for scientists involved in the pharmaceutical field, especially those involved with the analysis or characterisation of protein therapeutic drugs. No previous experience of HPLC is necessary.

What does it cover?

Chromatography plays a vital role in the characterisation and later analysis (including lot release, process monitoring and stability testing) of proteins. This course begins by describing the critical attributes of proteins that need to be characterised and monitored at various stages of drug development, production and use. Various modes of chromatography and their usefulness in the analysis of these critical attributes are discussed including:

- Reversed-Phase HPLC
- Ion Exchange Chromatography
- Hydrophobic Interaction Chromatography
- Size Exclusion Chromatography

What will I get from this course?

You will discover the critical quality attributes of proteins that function as therapeutic agents and learn how chromatographic techniques enable the characterisation and analysis of proteins for such quality attributes as deamidation, oxidation, disulphide bonding and glycosylation.

Course Outline

The regulation of protein drugs
Chemical degradation of proteins
Glycosylation and oligosaccharide structure
Monoclonal antibodies
Engineered protein conjugation
Peptide maps
Reversed-phase HPLC - the preferred technique for protein analysis
Ion exchange chromatography and protein production
Size exclusion chromatography in protein analysis

Available as an in-house or off-site course. Contact us for details