

Big Molecules – Big Challenges (1 day)

(Size Exclusion, Ion Exchange and Affinity Chromatography in the analysis of biomolecules)

Who should take this course?

Complementary to the range of courses covering conventional reversed-phase chromatography, this one day programme will acquaint you with how to characterise and purify larger molecules such as proteins, monoclonal antibodies and pharmaceutical excipients. The course is suitable for scientists already using these techniques and those familiar with small molecules who are looking to apply chromatographic techniques to larger molecules.

What does it cover?

'Big Molecules – Big Challenges' explains in practical, easy to understand terms:

- The basic principles behind the different modes of HPLC as applied to biopharmaceuticals
- Column and mobile phase selection
- Scale up
- Practical examples including characterisation of pharmaceutical excipients and the analysis of monoclonal antibodies
- Basic method troubleshooting

What will I get from this course?

This course will enable you to acquire a good understanding of the roles of the various modes of chromatography in the analysis of big molecules. You will learn more about the types of column suitable for the analysis of biomolecules and how to use these to your advantage. You will also hear about the latest developments in HPLC available for analysis of big molecules.

Course Outline

Basic principles behind the different modes of HPLC
Ion exchange chromatography
Hydrophobic interaction chromatography
Affinity chromatography
Size-exclusion chromatography
Column and mobile phase selection
Scale up and loading capacity
Analysis of cationic polymers
Analysis of monoclonal antibodies
Basic troubleshooting

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



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