

Hydrophilic Interaction Chromatography (HILIC) (1 day)

Who should take this course?

Highly polar compounds are frequently very poorly retained using reversed-phase HPLC, limiting the scope of this technique for the ever-increasing array of polar compounds requiring analysis. Hydrophilic Interaction Chromatography (HILIC) offers an alternative and orthogonal approach for the analysis of such compounds. This course is suitable for all chromatographers who wish to improve or develop separations of polar compounds or wish to keep up to date with the latest technological developments in this area.

What does it cover?

This one day HILIC course explains the application and use of the HILIC technique. This technology opens up a unique possibility for the separation of polar or hydrophilic substances using simple, usually LC/MS compatible, buffer systems. The course topics include:

- An introduction to the principles of HILIC
- Overview of HILIC mechanism
- Examination of the differences between reversed-phase, normal-phase and HILIC techniques
- Method development and/or optimisation
- HILIC for preparative HPLC of highly polar compounds
- HILIC and MS for bioanalysis
- Troubleshooting HILIC separations

What will I get from this course?

Those attending the course will learn the principles of HILIC along with the potential applications of the technique. You will then be in a position to evaluate the technique and develop methods as a solution for the analysis and separation of highly polar compounds.

Course Outline

Introduction to HILIC
HILIC method development
HILIC for preparative separations
HILIC for bioanalysis
Applications of HILIC
Troubleshooting HILIC

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

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