

HPLC Method Development (1 day)

Who should take this course?

Reversed-phase method development is looked upon as a mystery by many chromatographers. Good resolution can be a hidden treasure which either requires too much time to find or entirely eludes the earnest seeker. This course guides the chromatographer through each step of the pathway that leads to achieving good resolution. Although no previous HPLC experience is necessary, the course will be especially valuable to those with some chromatography experience who are either unfamiliar with method development or wish to improve upon their existing strategies.

What does it cover?

This one day method development course is focused on revealing the important factors involved in reversed-phase separations, how each affects retention and resolution and how to most efficiently and effectively develop reversed-phase HPLC methods. This course covers:

- An introduction to the principles of chromatographic resolution
- Overview of reversed-phase HPLC columns
- How changing stationary phase can affect selectivity
- The mobile phase – how to change retention and selectivity
- Gradient elution – getting the most from your separation
- The effect of temperature on reversed-phase separations
- A systematic approach to developing reversed-phase HPLC methods

What will I get from this course?

Those attending the course will learn the important principles that affect resolution. This will provide a solid platform from which you will be able to implement a systematic, efficient approach to developing rugged, robust reversed-phase HPLC methods.

Course Outline

Resolution	Gradient Elution
Reversed-Phase HPLC Columns	pH Control
Alternative Stationary Phases	Temperature Effects
Mobile Phase Selection	Method Development Strategy
Effect of Solvent Strength	

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