HPLC Method Development "Increasing Sample Throughput" (1 day)

Who should take this course?

This one-day course is designed to assist chromatographers in reducing analysis costs and increasing laboratory throughput by developing faster, more reproducible HPLC assays in a logical, methodical and time effective manner. This course will particularly appeal to the more experienced chromatographer intending to improve/troubleshoot existing methods or develop new methods.

What does it cover?

In addition to a review of reversed-phase HPLC columns, the course covers:

- What is the optimum particle size for robust HPLC separations?
- Optimising selectivity to reduce analysis costs.
- Optimising temperature to reduce analysis costs.
- How to obtain reproducible chromatography with polar basic compounds.
- Reducing analysis times by >50%.

What will I get from this course?

You will acquire an excellent understanding of how to improve existing HPLC methods and develop better HPLC separations using the full range of tools available to the modern chromatographer. Considerations such as particle size, temperature and selectivity will be fully explored. You will discover a range of options for the separation of difficult to separate polar compounds and you will gain a good appreciation of the latest developments in HPLC.

Course Outline

'Adequatization' of HPLC Methods
HPLC Columns
Reversed-Phase Separation Strategy
Gradient Separations
Latest Developments Including:
- Smaller Particles
- Optimising Selectivity with Bonded Phases
- Analysing Polar Basic Compounds
- Temperature Effects & Preheating

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