

Unit 6

Chromatography

- 1 What is the aim of chromatographic techniques?
- 2 What is the relation between the retention time and the speed of the analysis?
- 3 How do we measure efficiency?
- 4 What are the two main phases in chromatographic techniques?
- 5 What is the most important part of HPLC?
- 6 How do we put samples into the column?
- 7 In which phase do we use silica-based particles?
- 8 What is the commonest HPLC detection technique?

Vocabulary warm-up

stationary phase	column	retention time	microsyringe	device	eluate
analyte	mobile phase	theoretical plate	chromatogram		
eluent	sample	injector	flow volume		

- 1 _____ characteristic time it takes for a particular analyte to pass through the system
- 2 _____ in many separation processes is a hypothetical zone or stage in which two phases, such as the liquid and vapour phases of a substance, establish an equilibrium with each other.
- 3 _____ substance fixed in place for the chromatography procedure
- 4 _____ phase that moves in a definite direction
- 5 _____ substance to be separated during chromatography. It is also normally what is needed from the mixture
- 6 _____ the visual output of the chromatograph
- 7 _____ the mobile phase leaving the column
- 8 _____ the solvent that carries the analyte
- 9 _____ the matter analyzed in chromatography
- 10 _____ a device used in conjunction with injecting samples
- 11 _____ a glass tube with a diameter from 5 mm to 50 mm and a height of 5 cm to 1 m with a tap and some kind of a filter
- 12 _____ an object or a piece of equipment that has been designed to do a particular job
- 13 _____ a small pump with a plunger that fits tightly in a tube
- 14 _____ amount of eluate passing through the column