High-Performance Liquid Chromatograph (HPLC)

TECHNICAL DETAILS

Manufacturer: Knauer + Varian

Model: Smartline (2600 UV) + Varian (380-LC)
Extras:

HOW IT WORKS?

The HLPC is equipped with fraction collector and two detectors, UV (Knauer 2600) and light scattering (Varian LC-380). It uses a liquid mobile phase to separate the components of a mixture.

The components are dissolved in a solvent and forced to flow through a chromatographic column under high pressure. In the column, the mixture is resolved into its components.

The components flow through a detector and a chromatogram is generated. It equipment can be work in isocratic or gradient conditions. The instrument operates in a wavelength range of 190 to 400 nm.

The evaporative light-scattering detectors deliver a signal for all compounds that do not evaporate or decompose during the mobile phase to evaporation stage.

APPLICATIONS

Allows separation, purification, identification, and quantification of compounds in matrices of different origins.

ANALYSIS REQUIREMENTS

Samples must be volatile and thermally stable. Liquid samples (filtered at 0.2 µm).
The volume required is 500µl (vial) or 100µl (insert) of sample. In case of method development, a minimum of 1 ml solution will be required. Sample, blanks, and standards must be processed with same procedure steps.

ACCESS CONDITIONS

Remote and Onsite