ADVANCE SCIENCE

INNOVATION | PRECISION | PERFORMANCE

Automated HPLC System

for Separation of complex mixtures

MODEL NO. : AS-HPLC-100



Advance Science Automated HPLC System for Separation of complex mixtures is a high performance liquid chromatograph designed for accurate, reliable and reproducible analysis in research, pharmaceutical, chemical, food, environmental and quality control laboratories.

- HIGH SEPARATION PERFORMANCE
- RELIABLE & ACCURATE ANALYSIS
- USER FRIENDLY SOFTWARE
- ROBUST & DURABLE DESIGN

TECHNICAL SPECIFICATIONS

Parameter	Specification
Instrument calibration standards	IEC 17025
Components of unit	Quaternary Low-Pressure Gradient pump & Parallel Double Plunger
Number of solvents delivery	4
Flow rate setting range in ml/min	0.001 to 10
Flow rate accuracy	± 1 %
UV-Vis Detector provided	No
Light source	Deuterium lamp
Spectrum Band width in nm	NA (if not provided)
Wavelength range in nm	190 - 700
Sampling Rate in Hz	100
The flow cell must be temperature Controlled	Yes
Wavelength accuracy in nm	± 1
Wavelength reproducibility in nm	NA (if not provided)
Drift in AU/Hour	Less than 1×10^{-4}
Noise level in AU	$\pm 5 \times 10^{-6}$
Ability to monitor and quantitative 2 wavelengths simultaneously	Yes
Linearity in AU	2.5 or more
Temperature control provided for Flow cell	NA (if not provided)
Temperature control range for flow cell in Degree Celsius	5 degree above room temp to 50 degree
Flow cell path length in mm	10
Flow cell volume in µl	10 - 15
Injection Method	Total volume sample injection
Carry over of sample	0.005% or lower
Injection precision in RSD	Less than 0.50 % RSD
Operating Windows	Win 7 or latest
Provision of Photo diode array	Yes
PDA detector Wavelength range in nm	190 - 800 or better

KEY FEATURES

- Quaternary Low-Pressure Gradient Pump with Parallel Double Plunger
- 4 Solvent Delivery Channels
- Wide Flow Rate Range (0.001 to 10 ml/min) with High Accuracy (±1%)
- Deuterium Lamp (190 – 700 nm)
- PDA Detector (190 – 800 nm or better)
- Temperature Controlled Flow Cell (5°C above room temperature to 50°C)
- Simultaneous Monitoring & Quantification at 2 Wavelengths
- Total Volume Sample Injection with High Precision (RSD < 0.50%)
- User Friendly Software (Win 7 or latest)
- Reliable, Robust and Easy to Operate

APPLICATIONS

- Pharmaceutical Analysis
- Food & Beverage Analysis
- Environmental Analysis
- Chemical Analysis
- Research Laboratories
- Quality Control Laboratories

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