

Product Name :
HPLC High Performance Liquid Chromatography

Product Code :
NLAB-SCIENTIFICEQ12013



Description :

HPLC High Performance Liquid Chromatography

Technical Specification :

Solvent cabinet

Power Supply Module and Interface Control Board Bottle Capacity:

4 x 1 L bottles Pump:

Quaternary.

Pressure: 600 bars (0.001 - 2.500 mL/ min)

Settable Pressure Limiter Range: 0.0 - 60.0 MPa.

Settable Flow Range: 0.001 - 5.000 mL/min.

Autosampler:

Reproducibility of injection volume: 0.5% RSD (10µL injection)

Linearity of injection volume: R2- 0.999

Accuracy of injection volume: $\pm 1.0\%$ (50 μL n=10)

Carryover: <0.005% RSD

Withstand pressure: 600 Bars

Syringe Volume:

100 μL (standard)

Injection Volume:

0.1 - 50 μL (100 μL syringe)

Degasser: Automatic degassing unit for HPLC.

Software: Suitable Software with licences.

Peltier Column Oven:

Control System: Air circulating system: Peltier heating/cooling system.

Setting Range: 1°C to 85°C (0.1-0.2 $^{\circ}\text{C}$ step)

Accuracy: $\pm 1.0^{\circ}\text{C}$.

Stability: $\pm 0.5^{\circ}\text{C}$.

Operating temperature range: 4°C to 35°C .

Liquid Leak

Sensor: Mandatory. FLD Detector:

Source Xe lamp, Hg lamp

Excitation wavelength range 200~850 nm

Emission wavelength range 250~900 nm

Excitation spectral band width 15 nm

Emission spectral band width: selectable.

Wavelength accuracy 5 nm

Wavelength reproducibility ± 1 nm

Sensitivity S/N > 5000.

Flow cell 12 μL , 1.0 Mpa

Flow cell temperature control range 30-40 $^{\circ}\text{C}$.

Operation temperature 4 to 30oC)

Diode Array Detector:

Single beam ratio photometry.

Light Source: D2 Lamp, W Lamp, Hg Lamp for checking wavelength

Wavelength Range: 190 nm to 900 nm.

Wavelength Accuracy: ± 1 to 2nm

Computer and Printer: Including suitable Computer and Printer

Validation documentation: IQ/OQ/PV Documentation

Suitable consumables starter pack.

Included: UPS with 10 kVA suitable for supplied HPLC, with backup time at full load: 120 minutes

Power Connection: 240 V, 50/60 Hz

Provide the warranty period of 24 months

Identifying, quantifying and purifying aflatoxin contamination and other contaminants in selected value chains.

Naugralabequipments

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