

Product Name : Liquid Chromatography Digital System	Product Code : NLAB-EDUCATIONTVET16009
Description :	
Liquid Chromatography Digital System	
Technical Specification :	
Liquid Chromatography Digital System -	
Specification:-	
Quaternary Pump:-	
Composition Precision: < 0.1%.	
Composition Accuracy: < 0.5%.	
Gradient formation: 4-channel mixing valve.	

Operating principle: Parallel dual-plunger pump, Low-pressure gradient.

Number of Solvents: up to 4 solvents.

HPLC:-

Stylish and compact design.

Ultra speed data processing by Network HPLC.

Versatile dedicated applications.

Accurate and reliable data.

Designed for all you need in the lab.

Enhanced superior performance.

Binary Pump:-

High-pressure gradient.

Configure with Gradient pump.

Operating principle: Double parallel dual-plunger pump,

Vacuum Degasser:-

Internal volume per channel: 925 ul per channel.

Materials in contact with the solvent.

Number of channel: 4 channels.

Maximum flow rate: 10ml/min per channel 0~2.0ml/min per channel for 70% Gas Removed from Methanol.

Teflon AF, PEEK, and Glass-filled PTEE.

Column Compartment:-

Temperature stability: $\pm 0.05^{\circ}\text{C}$

Temperature accuracy: $\pm 0.5^{\circ}\text{C}$

Temperature range: 4°C (Cooling) - 90°C

Column capacity: Max. 3 ea of 30 cm column (Analytical)

Max. 2 ea of 30 cm column (Semi-Prep)

PDA Detector:-

No. of PDA Channel: 1024

Wavelength: 190 ~ 950nm

Noise Level: 2×10^{-5} AU (Empty Cell, 1 sec Rise Time, 254nm)

Drift: 2×10^{-4} AU/hr (Baseline Correction), 0.001AU/hr (Room Temp)

Wavelength Accuracy: 1nm (HY-1 Holmium Oxide Filter)

UV/Vis Detector:-

Data collection rate: up to 50Hz

Noise level: $< \pm 0.5 \times 10^{-5}$ AU, 254nm, dry cell

Drift: $< 1 \times 10^{-4}$ AU/hr

Wavelength Range: 190~900nm (Dual wavelength)

Linearity: > 99.5% for 2.5AU (acetone, 254nm)

RI Detector:-

RI Range: 1.00~1.75 RIU

Noise: 5×10^{-9} RIU (Analytical) / 10×10^{-8} RIU (Semi-prep)

Flow Cell Volume: 9 ul (Analytical) / 7 ul (Semi-prep)

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