

Analytical HPLC System

LAHS-A10



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Analytical HPLC System LAHS-A10 features Quaternary Low Pressure Pump with 0.001-10 ml/min pump flow rate. Incorporated Single wavelength UV-Vis detector with a range of 190 to 800 nm that examines sample absorption at different wavelengths and a high pressure pump providing continuous stable flow. This HPLC system offers high speed accuracy, resolving power, detection, quantification, convenience and applicability to new sample types.

Features

- Single wavelength UV-Vis detector with a range of 190 to 800 nm
- Consist of Quaternary Low Pressure Pump
- Advance and intellectual HPLC system
- Excellent Flow Accuracy and Pressure Accuracy
- Column oven with greater capacity of 3 column with maximum thickness ID10 × 250 mm
- Fast and stable UDP communication protocol, can be used for instrument remote control
- Enhancement of up to 5 mm stroke of plunger rod with good performance and high pressure constant flow pump or parallel pump head
- Complies with FDA 21 CFR part 11

Applications

High Performance Liquid Chromatography system has been widely used in Research and Development, pharmaceutical, food nutrient analysis of amino acids and sugars, detection of food contaminants, environmental pollutant and chemical product purity.

Specifications

Model No.		LAHS-A10
Pump specification	Type	Quaternary Low Pressure Pump
	Flow Rate Range	0.001-10.000ml/min, in 0.001ml increments
	Flow Accuracy	$\leq \pm 0.2\%$ (1.00ml/min, H ₂ O R.T.,8.5MPa)
	Flow Precision	RSD $\leq 0.06\%$ (1.00ml/min, H ₂ O,R.T.,8.5MPa)
	Maximum Pressure	63 MPa
	Pressure accuracy	$\leq \pm 3.0 \%$
	Pressure pulsation	$\leq 0.1\text{MPa}$
	Composition rang	0 to 100 %
	Composition precision	$\leq 0.3 \%$ RSD
UV/VIS Detector	Wavelength Range	190 to 800 nm
	Wavelength Repeatability	$\leq 0.1 \text{ nm}$
	Wavelength Accuracy	$\leq \pm 1.0 \text{ nm}$
	Band Width	6 nm
	Response Time	0.0 s to 5 s
	Baseline Noise	$\leq \pm 0.25 \times 10^{-5} \text{ AU}$ (empty cell, 254nm, 1.0s)
	Drift	$\leq 0.5 \times 10^{-4} \text{ AU/h}$ (empty cell, 254 nm, 60 min)
	Path length	10 mm(analytical cell)
	Light Source	Deuterium Lamp and Tungsten Lamp

Data-processing Workstation	<ul style="list-style-type: none"> • System contain the tables for regular samples • Equipped with Internal and external standard calculation process • Automatic display, print, export of data and starting of another program on completion on measurement • Observe with the condition of 21 CFR part 11 directive of the FDA
A10 System Kits	1 Set Combined A/D converters Combined vacuum degasser and 4 channel
Power Supply	AC 110 /220 V \pm 1 0%, 50/60 Hz
Dimension	710 \times 583 \times 500mm; 770 \times 450 \times 700mm
Weight	156 kg
Accessories	Degasser

Optional Accessories

Accessories no.	Name
1	Column oven
2	Auto sampler
3	Diode Array Detector
4	Refractive Index Detector
5	Evaporative Light Scattering Detector
6	Fluorescence Detector