



## **ANALYTICAL HPLC LD-LAHS-C10**

Analytical HPLC LD-LAHS-C10 system is equipped with a flow rate range of 0.001 to 10 ml per minute. Pump variations available are Isocratic, Binary and Quaternary. Integrated with DAD detector which provides full spectrum detection and for low concentration samples, high sensitivity mode can be performed. Optional detectors available are UV-Vis Detector, FLD, RID, ELSD and CAD to meet the detection of different compounds. Column oven operates on principle of Peltier element and fan-based forced air with over-temperature power-off protection and triple safety protection designs. Autosampler adopts integrated constant pressure needle and precise syringe pump which makes results more precise and accurate.

## Features

- Reciprocating tandem plunger pump and pressure dynamic suppression algorithm ensures precise gradient change and retention time
- Pump materials are made up of high-hardness alloy steel
- Equipped with an online automatic rinsing mechanism to prevent the crystallization of buffer salts and the growth of microorganisms in pump
- Suspended floating plunger can adapt to the working conditions automatically, which is convenient for disassembly
- Dehumidification function as an optional to avoid the generation of condensed water, effectively prevent the sample from being diluted, and ensure accurate results while sampling
- Sampling needle is polished and not reactive which effectively reduces the sample residue on it
- For DAD detector, up to 12 wavelengths can be set for real-time detection
- While analyzing the complex samples, high resolution mode can be used with detectors for finer spectral maps
- FDA 21 CFR Part 11 compliant software
- Backup and restore of data can be easily performed in the workstation, which is convenient for users
- Up to 25 integration events and 3 quantitative calculation methods (external standard method, internal standard method, and normalization method) for complex data

## Applications

Used in pharmaceutical analysis, Environmental Industry, Veterinary drugs, Dairy products, Food industry and cosmetics.

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## Specifications

Model No.	LD-LAHS-C10
Column	C18, 4.6*250mn, 5um
Carryover	0.00%
Linearity	> 2.0 AU
Slit width	1 nm, 2 nm, 4 nm, 8 nm
Light Source	Deuterium and Tungsten lamp
Degassing unit	Online degassing(optional)
Injection mode	Low-loss, microliter carrying, full-loop
Injection time	Minimum to 5s
Flow rate range	0.001 mL/min ~ 10.000 mL/min
Injection range	0 - 100 $\mu$ L
Plunger rinsing	Supported
Sample capacity	108, 2 mL(96 & 384 well plates)
Maximum pressure	62 MPa
Wavelength range	190 - 800 nm
Temperature range	5 $^{\circ}$ C above ambient to 85 $^{\circ}$ C
Temperature control	4 - 40 $^{\circ}$ C (optional)
Wavelength accuracy	$\pm$ 1 nm
Wavelength precision	$\pm$ 0.1 nm
Temperature stability	$\pm$ 0.1 $^{\circ}$ C
Wavelength calibration	Holmium glass
Repeatability of retention time	Less than 0.2%