KEJIE INSTRUMENT

LC 600A

High Performance Liquid Chromatograph

INTRODUCTION

The LC 600A high performance intelligent fully controlled Liquid chromatograph adopts a modular design, P600 high pressure constant current pump and UV600 UV detector to optimize the isometric/gradient analysis system. WS600 workstation can control several P600 high voltage constant current pumps, UV600 ULTRAVIOLET detector and constant temperature column box at the same time to achieve multiple high pressure elution and wavelength scanning.

PERFORMANCE CHARACTERISTICS

1. LC–P600 high pressure constant current pump

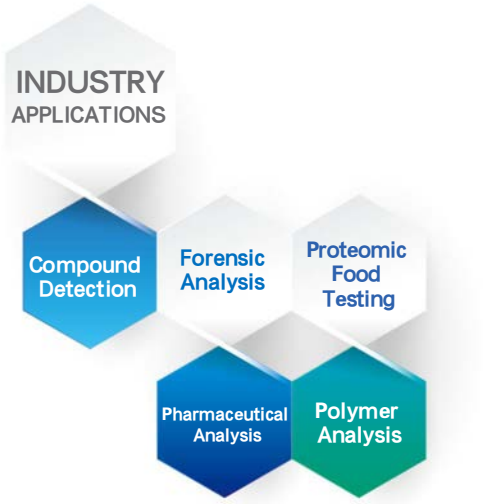
1.1 Reciprocating parallel pump design, high flow accuracy, small pressure pulsation, prolong the service life of sealing ring and piston rod;
1.2 Diaphragm second shock damper and electronic pulsation suppression technology simultaneously control pressure pulsation to ensure the lowest baseline noise;
1.3 Overall check valve, simple structure, good sealing;
1.4 The plunger rod is automatically indented, convenient to replace the sealing ring;
1.5 Optional column cleaning function, suitable for analysis conditions with buffer salt.

2. UV600 ULTRAVIOLET detector

2.1 The circulation pool designed by parallel double-cone hole greatly improves the SIGNal-to-noise ratio and has better detection effect;
2.2 Power-on self-check function, through the spectrum wavelength 486.6nm and 656nm, to judge the accuracy of the wavelength display error, to ensure excellent wavelength accuracy, to ensure the best state of the instrument;
2.3 The control circuit adopts multi-microprocessor structure to manage signal acquisition, data processing, system control and communication respectively. When doing isometric analysis, it is convenient to set parameters such as wavelength, filter constant, output range and running time through the LCD screen with all Chinese characters and seven function keys. And can realize deuterium lamp switch, spectrum scanning, start the analysis program and other functions;
2.4 All-digital switching system, avoiding the signal distortion and interference caused by multi-analog-digital conversion of chromatographic signals.

3.WS600 chromatographic workstation

3.1 It has dual functions of liquid chromatography system control and chromatographic data processing;
3.2 Six quantitative calculation methods;
3.3 Multiple standard samples with different concentrations were calibrated to establish sample concentration-area correction curves;



Matching Products

- Six–way injection valve
- Autosampler
- Ultrasonic Cleaner
- Chromatography Column Warmer
- Online degasser
- Solvent filter
- Vacuum Pumps
- Liquid Chromatography Columns

3.4 Flexible peak recognition and processing capabilities;
3.5 Chromatographic graph, quantitative calculation method, peak processing parameters and peak identification table can be saved in the user named file.

4. With automatic online detection function

TECHNICAL PARAMETERS

Infusion Unit	Model	P600(analytical type)	
	Infusion form	Double plunger reciprocating parallel	
	Maximum working pressure	42MPa	
	Flow setting range	0.001mL/min～9.999 mL/min	
	Flow accuracy	RSD< 0.06%	
	Pulse	0.1MPa	
	Power supply	220V/110V	
Ultraviolet Detector	Model	UV600	
	Optical source	D2 lamp	D2+W lamp
	Wavelength range	190 ～ 680nm	190 ～ 900nm
	Wavelength accuracy	±1nm	
	Wavelength precision	Below 0.1nm	
	Noise	±0.25×10^{-5}AU（static state） / ±1×10^{-5}AU（Dynamic, under specified conditions）	
	Drift	Not exceeding 0.4×10^{-4} AU/h(static state) / 2×10^{-4}AU/h（Dynamic, under specified conditions）	
	Minimum detection concentration	5×10^{-9}g/mL	
	Flow tank volume	8μL	
	Power supply	220V/110V	
Column Oven	Model	CO600	
	Temperature control range	Indoor temperature +5℃ ～ 80℃	
	Temperature setting error	±2℃	
	The temperature precision	±0.1℃	
	Power supply	220V/110V	
Whole engine test	Qualitative repeatability	RSD≤ 0.1%（n=6）	
	Quantitative repeatability	RSD≤ 0.2%（n=6）	
Chromatographic workstation	Model	WS600	
	Signal transmission mode	All digital signals	
	Operating mode	It can reverse control and monitor the operation of each unit of the instrument (edit gradient program, variable wavelength scan, event program setting, spectrum scan, spectrum comparison and other functions)	
	Interface	English interface (optional)	
	Installation	Built - in, CD - mount	
Optional Detector	Differential refractive detector	RI2000	
	Differential refractive detector	RI-201H	
	Fluorescence detector	RF-20A	
	Diode array detector	SPD-M20A	
	Typical evaporative light scattering detector	ELSD-5000	
	Typical evaporative light scattering detector	ELSD-180	