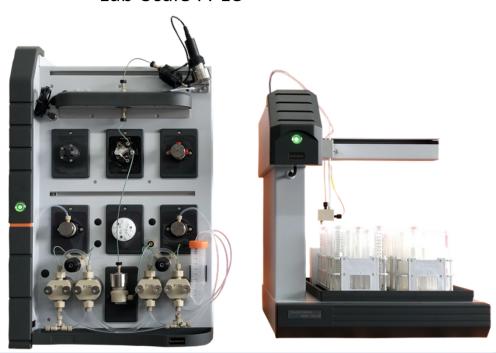


PROTEIN PURIFICATION CHROMATOGRAPHY SYSTEM

-Lab-Scale FPLC



Introduction:

FPLC (Fast Protein Liquid Chromatography) on a minimum footprint: Unique AutoPure FPLC systems combine flexibility and reliability. The biocompatible/ metal free Unique AutoPure FPLC is the perfect choice for your protein purification task.

Unique AutoPure systems have different flow rate/pressure specifications, With flow rates up to 25 ml/min, Unique AutoPure25 system is designed for media screening and method optimization. Unique AutoPure100 system, with flow rates up to 100 ml/min, is designed for scaling up to larger columns.

Unique AutoPure Series

Key Features And Benefits:

- -Dual Piston pump, Provides continuous and accurate flow rates, to give reproducible isocratic or gradient elution.
- -Wetted material: Biocompatibility.
- -DAD UV detector, Provides real-time measurements of absorbance over the UV and visible range, from 200nm up to 800nm, the UV monitor has a Full-spectrum direct reading mode that allows monitoring of up to three wavelengths simultaneously.
- -Unique Fix wavelength detector : use the Led lamp, The life of the lamp exceeds 8000 hours.
- -The pH and conductivity detectors Integrated into the system.
- -Customizable system that is easy to upgrade as your research needs develop.
- -Unique CDSystem software provides simple, intuitive, and flexible preprogrammed method templates and total system control to simplify your job, Meet the requirements of FDA CFR21 Part 11.



Unique AutoPure 25 –L1

<u>Pump</u>

Biocompatibility gradient Piston pump

Flow Rate:

Range: 0.001-25.000ml/min

Accuracy: 1.2% Precision: 0.5%

Pressure Range: 0-27.5Mpa

Sampling Valve

Auto Inject valve

Model: load/inject/waste

Sample loop: 1ml

UV Detector

280nm Fix wavelength detector

Life: >8000Hr Noise: $\pm 2x10^{-5}$ Abs

Optical path length: 2mm (standard)

DAD detector

Up to 800nm Noise: $\pm 2x10^{-4}$ Abs

Optical path length: 2mm (standard)

Conductivity Detector

Range: 0.01-999.99 mS/cm Accuracy: 0.02 mS/cm or 2%

pH Detector

Range: 0-14

Accuracy: ± 0.1 pH unit within pH 2 to 12

Flow cell volume: 75ul

Unique AutoPure 100 –L1

Pump

Biocompatibility gradient Piston pump

Flow Rate:

Range: 0.001-100.000ml/min

Accuracy: 1.2% Precision: 0.5%

Pressure Range: 0-10Mpa

Sampling Valve

Auto Inject valve

Model: load/inject/waste

Sample loop: 1ml

UV Detector

280nm Fix wavelength detector

Life: >8000Hr Noise: $\pm 2x10^{-5}$ Abs

Optical path length: 2mm (standard)

DAD detector

Up to 800nm

Noise: $\pm 2x10^{-4}$ Abs

Optical path length: 2mm (standard)

Conductivity Detector

Range: 0.01-999.99 mS/cm Accuracy: 0.02 mS/cm or 2%

pH Detector

Range: 0-14

Accuracy: ± 0.1 pH unit within pH 2 to 12

Flow cell volume: 75ul

OPTIONS	
AirS01	Air sensor
CPV02RX	Position valve, up flow/down flow/bypass
MSV04	Buffer valve, 4 inlets, for 1/8" OD tubing
MSV10	Buffer valve, 10 inlets, for 1/8" OD tubing
DAD402	200-400nm, DAD detector, 2 wavelengths simultaneously
DAD604	200-600nm, DAD detector, 4 wavelengths simultaneously
DAD804	200-800nm, DAD detector, 4 wavelengths simultaneously
OV02	Outlet valve, one for frac, one for waste
OV10	Outlet valve, one for frac, nine for waste
Frac-02	Fraction collector, 2 racks
	3X7, 30mm OD tubing, number of fractions: 21
	5X12, 16mm OD tubing, number of fractions: 60
	6X15, 13mm OD tubing, number of fractions: 90