



Single-Pump Chromatography System

단일펌프 단백질 정제시스템



Unique AutoPreS

- **Flow Rate**
0.001~15 ml/min (Single Pump Chromatography System)
- **UV Detector**
280 nm fixed wavelength (standard), 280/260 nm dual or 200~400 nm (option)
단백질부터 핵산·펩타이드까지, 시료 특성에 맞는 파장 선택 가능
- **XY-axis Sample Collector (option)**
- 컴팩트한 모듈형 단일 펌프 시스템
- 단백질·핵산·백신용 다당류를 µg~g 단위까지 신속 정제
- 유럽·미국산 핵심 부품 사용 제조
- Biologically inert materials(good bio compatibility) 적용으로 높은 안정성과 정밀도 제공
- 합리적인 가격으로 우수한 성능과 안전성을 제공

Unique CDSystem

- Chromatography workstation: **Easy and powerful** data management system.
- Instrument control, method management, data analysis, standard curve, report editing, user authority management, audit tracking, digital signature, network database.
- Meets the requirements of pharmaceutical Industry on data traceability and security.
- 21 CFR Part 11 대응 기능(감사 추적 · 전자서명 · 사용자 권한) 지원

Unique AutoPreS

Product Model and Technical Parameters



Inscinstech

Standard Configuration

Model	Description
Unique AutoPreS Piston Pump	Unique AutoPre15S
	Single pump system Flowrate range: 0.001- 15 ml/min Pressure: 0-27.5 MPa (4000 psi) Flowrate accuracy: $\pm 1.5\%$
	Flowrate precision: $RSD \leq 0.5\%$ Gradient type: linear, equal, step gradient
Automatic Sampling Valve	Three-position seven-port valve, which can be reverse-controlled by software, supports quantitative sampling supports load, Inject, waste functions
280nm Fixed Wavelength Detector	LED, fixed single wavelength, service life ≥ 8000 hours Detection wavelength: 280 nm Wavelength accuracy ± 1 nm, wavelength repeatability ± 0.5 nm Drift: 1×10^{-3} AU/HR Noise: 4×10^{-5} AU(@254nm, 1S)
Temperature Detector	Reading range: 0-100°C Temperature accuracy: $\pm 1^\circ\text{C}$ between 5°C and 45°C Temperature compensation for conductivity and pH
Conductivity Detector	Conductivity reading range: 0.001 mS/cm-999.9 mS/cm Conductance accuracy: $\pm 2\%$, real-time automatic reading Flow cell volume: 20 μ l with built-in temperature sensor, automatic correction by software with correction factor
Back Pressure Valve Module	20 psi (2ml/min)
Inline Filter Module	20 μ m titanium alloy filter
Mixer Module	Mixing chamber volume: 0.6 ml or 2 ml
Column Holder	2 PCS
Start-up Package	Start- up package (including pipelines, connectors, maintenance tools, manuals, USB Key, etc.)
Control System	Unique CDSYSTEM chromatography software(Without Computer)

Optional Configuration

Model	Description
pH Detector	Detection range: 0-14, accuracy: ± 0.1 @2-12 pH The dead volume of the flow cell is 76 μ l Including temperature compensation
Bubble Sensor	Monitor sample loading and air bubbles in the system
UV Detector	L2: fixed dual wavelength, detection range 280 nm and 260 nm (or 200-600 nm optional two fixed wavelengths) DAD402 variable dual wavelength, detection range 200-400 nm, full- spectrum direct reading, can detect two arbitrary wavelengths at the same time
Outlet Valve Module	Two channels, 1 channel for large volume sample collection, 1 channel for waste liquid outlet
Fraction Collection Module	Frac-01 supports 1-50ml sample collection, and comes standard with a collection rack (96-well plates or centrifuge tubes and test tubes of different specifications can be selected) Frac- 02 supports 1-50ml sample collection, and comes standard with two collection racks (96-well plates or centrifuge tubes and test tubes of different specifications can be selected)
Column Valve Module	Single column valve, Up flow/ Down flow/Bypass