



■ Next-generation protein purification system

NestoPure



Product Introduction

NestoPure is a flexible and intuitive chromatography system designed for the purification of microgram to gram quantities of proteins, peptides, nucleic acids, polysaccharides, and other target substances.

The Unique CDSsystem chromatography workstation is a powerful and advanced chromatographic data management system that integrates instrument control, method management, data analysis, standard curves, report editing, user permission management, audit tracking, digital signatures, network database, and other functions. It complies with FDA 21CFR Part11/GLP/GMP regulations.

NestoPure carefully selects core components from renowned European and American manufacturers, ensuring high stability and precision. The parts that come into contact with the samples are made of biologically inert materials, providing excellent biocompatibility.

Fraction Collector



Fraction collector (open)-Frac-02SN

- Collection racks for 1.5ml, 15ml, and 50ml centrifuge tubes.
- Collection racks for 12mm and 18mm test tubes.
- Collection racks for 96-well plates.
- The collection arm's Z-axis is vertically adjustable to prevent splashing during sample collection.



Fraction collector (closed)-Frac-02PN

- Closed design reduces sample pollution.
- Can be stacked to save space.
- High operational speed, low vibration and noise, and minimized sample loss.
- Unique closed-loop control technology ensures high positioning accuracy.



Fraction collector (temperature control)-Frac-02CN

- Closed design reduces sample pollution.
- Independent Refrigeration Temperature Control, Temperature Range: 6 -20 ° C, Accuracy: ± 1.5 ° C.
- High operating speed, low vibration and noise, reduces sample loss.
- Unique closed-loop control technology ensures high positioning accuracy.
- Effectively prevents inactivation or degradation/denaturation of unstable samples.

Application

Nucleic Acid

Vaccine

Polysaccharide

Blood Products

Peptide

Antibody

Recombinant Protein

Virus



Standard Configuration

Product Name	Technical Parameter			
NestoPure infusion pump	NestoPure25	NestoPure100	NestoPure150	NestoPure300
	- Dual Pump System - Flow rate: 0.001- 25ml/min - Withstand voltage range: 0-27.5MPa(4000psi) - Flow accuracy: $\pm 1.2\%$	- Dual Pump System - Flow rate: 0.01- 100ml/min - Withstand voltage range: 0-10MPa(1500psi) - Flow accuracy: $\pm 1.2\%$	- Dual Pump System - Flow rate: 0.01- 150ml/min - Withstand voltage range: 0-5MPa(725psi) - Flow accuracy: $\pm 1.2\%$	- Dual Pump System - Flow rate: 0.1- 300ml/min - Withstand voltage range: 0-3.5MPa(500psi) - Flow accuracy: $\pm 1.2\%$
	Repeatability flow rate : $RSD \leq 0.5\%$; Gradient type: linear, equidistant, stepped gradient, gradient ratio can be modified online			
Automatic sample injection valve	Three position seven port valve, support load, inject, and waste functions			
Fixed single wavelength UV detector	- LED light source, fixed single wavelength, lifetime $\geq 8000h$ - Detection wavelength: 280nm, 260nm or 254nm optional; - Detection range: -6 ~ +6AU; Linearity: $\pm 2\%$@0 ~ 2AU			
Temperature sensor	Reading range: 0-100°C, accuracy: $\pm 1^\circ C$ (5-45°C), capable of temperature compensation for conductivity and pH			
Conductivity detector	Detection range: 0.001-999.99mS/cm, accuracy: $\pm 0.02mS/cm$ or 2% (0.1-300mS/cm) detection cell volume 20 μ L; Including temperature compensation			
Back pressure valve	20psi (2ml/min)			
Online filter	20 μ m Titanium alloy filter			
Dynamic mixer	Optional 0.6ml, 2ml or 5ml mixed cavity			
Column clamp	2			
Launch package	Startup package (including tubes, connector, maintenance tools, instructions, encryption dog)			
Control system	Unique CDSYSTEM chromatography software (Without Computer)			

Optional Configuration

Product Name	Technical Parameter
Sample pump	- SP25, flow rate range 0.001- 25ml/min, pressure range 0-27.5MPa, flow rate accuracy $\pm 1.2\%$ - SP100, flow rate range 0.01- 100ml/min, pressure range 0-10MPa, flow rate accuracy $\pm 1.2\%$ - SP150, flow rate range 0.01- 150ml/min, pressure range 0-5MPa, flow rate accuracy $\pm 1.2\%$ - SP300, flow rate range 0.1- 300ml/min, pressure range 0-3.5MPa, flow rate accuracy $\pm 2\%$
pH detector	Display Range: pH 0-14 Detection Range: pH 2-12 Accuracy: ± 0.1 Includes temperature compensation
Bubble sensor	Used to monitor sample loading and detect the generation of bubbles within the system, with bubble sensors located at the A, B inlets and the sample inlet.
Buffer inlet valve	A/B pumps can be optionally equipped with 2, 6 (specific to the 300 system), 8, or 10-channel inlet valves.
UV detector	- L2 Fixed Dual Wavelength: Detects at 280nm and 260nm - DAD402 Variable Dual Wavelength: Detects in the range of 200-400nm. - DAD604 Variable Quadruple Wavelength: Detects in the range of 200-600nm. - DAD804 Full Wavelength Detection: Detects in the range of 200-800nm. - DAD894 Full Wavelength Detection: Detects in the range of 190-800nm.
Outlet valve	Optional 2, 8, 10 channel large volume collection valves
Fraction collector	- Frac-01 /Open/ one collection racks - Frac-02SN/Open/two collection racks - Frac-02PN/Closed/two collection racks - Frac-02CN /Temperature controlled/two collection racks
Column valve	Single column valve, downflow/upflow/Bypass; Three/six column position valve
Pressure sensor	- Pre-column pressure - Pre-column and post-column pressure
Sample inlet valve	2, 6, 8, 10

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