PURfect P®software

- **The brand-new PURfect P® software provides integrated DOE option. Via intelligent optimization, the DOE enables optimum experimental parameters and results with minimum experimental runs.**
- Developed independently with proprietary intellectual property, focusing on global customers with ease of use;
- Compliant with FDA 21 CFR/GLP/GMP and other relevant regulations, meeting the pharmaceutical industry's requirements for data traceability and integrity.
- A powerful, advanced, and highly stable chromatographic data management system.
- Full-process LOGBOOK recording, with protection features such as pressure alarms, collection alarms, and bubble monitoring to safeguard the chromatographic column and samples in real-time.
- Data is automatically saved in real-time to prevent data loss due to unexpected power outages.
- Unique remote control capability, supporting smartphones, tablets, and Wi-Fi access, allowing users to monitor ongoing experiments from their office area for convenient operations.

Instrument control
System control is used to execute and monitor the separation process, displaying all data during the separation process. The interactive flow path design allows for real-time monitoring and control. The interface includes four display panes: the chromatogram, running data, flow path diagram, and operation log. Upon connection, users can double-click on pumps and various valves in the flow path diagram to manually control the instrument, or they can insert a set of commands into the list for execution. In the attribute dialog box, settings can be adjusted for the data acquisition area, status display area, and flow path diagram according to individual preferences and operating choices.

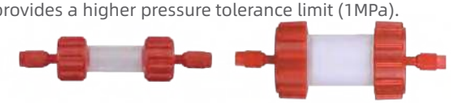
Method editor
The method editing adopts a modular design, covering method setup, system preparation, equilibrium, sample application, column flushing, elution, regeneration, CIP, and pause templates. Depending on actual needs, users can also edit and save templates by themselves. At the same time, the method editing program includes a column library, allowing direct selection of chromatography columns and intelligent programming, eliminating concerns about exceeding column capacity or packing pressure alarms. To create a new method in the method editing section, simply select the menu bar function "Scouting." This will enable a Scouting method, where relevant parameters can be adjusted, mainly for exploring different process options.

Result processing
The result processing interface allows for quick integration processing and column efficiency evaluation of completed data. For different sets of running data, a data comparison can be performed, facilitating the optimization of purification conditions for the next steps. Snapshots of the ongoing chromatograms can also be taken, enabling an assessment of the chromatogram processing status.

Report editing
Pre-set report templates make it easy to export experimental reports. Users can customize report formats according to their own needs,truly achieving flexibility in presenting report results.

For milligram-level purification

NmTrap™ 1 and 5 mL pre- packed columns have column bed sizes of 7.7x22mm and 16x25mm, respectively. They meet the rapid screening needs of various chromatographic media during protein, antibody, and other target molecule research and downstream separation and purification processes. Additionally, the innovative threaded tube end design makes them easy to use and provides a higher pressure tolerance limit (1MPa).



NmSCREEN™ 4.7 mL prepacked prepacked column has a column bed size of 7.7x100mm. It is suitable for rapid chromatographic media screening and early-stage optimization of chromatographic processes in downstream separation and purification of proteins, antibodies, and other target molecules. The innovative threaded tube end design allows the use of specialized connectors, enabling higher column efficiency and designed specifically for method optimization, allowing for sequential use.

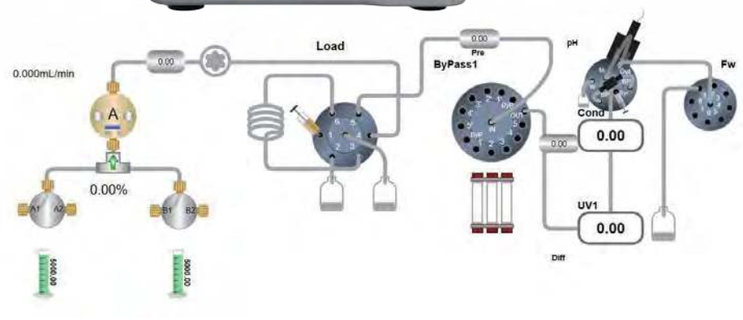
NmPREP™ 16/100 20mL and NmPREP™ 26/100 50mL chromatography empty columns have column bed sizes of 16X100mm and 26X100mm, respectively. They are suitable for first time scale-up of chromatographic processes, process validation, small-scale preparation, and desalting of purified samples during downstream separation and purification of proteins, antibodies , and other target molecules in the research phase.

The NmVALID™ Pro medium-pressure glass chromatography column has internal diameters of 8.0 mm, 11.0 mm, 16.0 mm, and 26.0 mm, making it ideal for early-stage process development, mid-stage process validation, packing material life-span verification, and troubleshooting during simultaneous production processes in chromatographic purification. The column tubes have lengths of 150 mm, 250 mm, 400 mm, and 650 mm, providing flexibility to assemble adjustable pistons at both ends (AA), one end (AF), or fixed at both ends (FF), enabling variations in column bed height. They can accommodate the pressure requirements for packing chromatographic media and the chromatographic purification process within a particle size range of 10 micrometers to 200 micrometers.
NmVALID™ Pro medium-pressure glass chromatography columns are essential tools for downstream chromatographic purification of various substances in the biopharmaceutical industry, including peptides, recombinant proteins, antibodies, vaccines, and other target molecules. They are considered one of the best chromatography column choices for chromatography purification professionals and laboratories.

EzPurity™ FPLC System

protein | antibody | vaccine | polypeptide | virus

SEP Standard



1 UV detector
2 pH detector
3 Cond/temp detector
4 Column position valve
5 Collection valve
6 Dynamic mixer
7 Sample injection valve
8 Purge valve
9 System pump
10 Inlet valve
11 System pressure detector
12 Pause/continue botton
13 Cord organizer
14 Guide rail
15 Tray
16 Fraction collector

Feature Highlights

1. Streamlined design with a simple and flexible configuration, making it easy to get started
2. Clean layout and pipeline management
3. Start, pause button for Convenient operation
4. Removable tray allowing easy cleaning
5. Light tight UV detector 7 minimizing interference
6. “large valve head” design enabling easy access
7. pH valve enabling multiple flow path schemes without the need of disassembling during calibrations
8. PURfect P® software bringing DOE option and scouting to a new level

Russia and CIS Distributor

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SEP™

The "SEP" series products are the latest compact and easy-to-use protein chromatography systems. Its unique design utilizes a dual-valve gradient mechanism to provide a versatile and cost effective solution to address applications in the development labs. The innovative fluid controls, and the integrated multifunction valves offer flexibility and automatic path switching. It is primarily used for laboratory-level process research and method development, catering to the purification of target products such as proteins, antibodies, vaccines, nucleic acids, and diagnostic materials ranging from micrograms to tens of grams. When used in conjunction with the new generation "PURfect P® Protein Purification System" software, the protein purification process becomes more efficient.

Functional Module		SEP 025
System pump	Type	Binary Piston pump
	Flow rate range	0.01-25ml/min
	Flow rate accuracy	±1.2%
	Flow rate precision	RSD<0.5%
	Pressure range	0-10MPa（100bar,1450psi）
Mixer	Type	Magnetic stirring dynamic mixer
	Volume	2mL standard
UV detector	Wavelength (Choose one of two)	Fixed two wavelengths: 260nm and 280nm Configurable two wavelength DAD detector: 200-400nm
	Wavelength precision/repeatability	±1nm / ±0.5nm
	Noise/shift	0.16mAu（1s）/ 1mAu/h
	Optical path	2mm
	Operation pressure	2Mpa
Conductivity detector	Detection range	0.001-999.99mS/cm
	Accuracy	±0.1mS/cm or ±2%
	Operation pressure	2Mpa
Temperature sensor	Temperature range	0-100℃
	Accuracy	±1℃
pH sensor	Range	0-14
	Accuracy	±0.1（2-12）
Valve	Inlet valve	Sample inlet X1，mobile phase inlets X3， (two of them are used for gradient elution)
	Automated injection valve	Load 、Inject 、 Waste modes
	Column position valve (optional)	Single valve with 3 column positions; Column, Bypass, and reverse flush functions
	Collection valve (optional)	8 outlets, F1-F8
Accessories (electrical and physical)	Chromatography workstation	PURfect P® advanced chromatography workstation for Win10 operating system
	Installation toolbox	PEEK/PTFE tubing, installation guide, user manual, tubing connector, clip, back-pressure valve, pre-column filter, 1mL sample loop, etc.
	Material	PEEK，Ti，PTFE
	System power	110 or 220VAC/400W, please specify
Fraction collector (optional)	Rack	5mL*90, 15mL*60, 50mL*21, and 96 well plate