



# Laboratory Series Products

Product Catalog 2022 Ver.00





## Purilad High-throughput Multi-channel Protein Purifier (with detector)

### Product Description

The Purilad protein purification system adopts the high-throughput design of parallel purification of 8 samples, which is convenient, fast, and cost-effective. It is an ideal tool for pharmaceutical and protein platform research work. The system includes infusion pump, collector, column stand and mechanical arm. It includes 8 independent valveless metering pumps with a flow rate range of 0.1~30ml/min. When the large-capacity injection pump is selected, the flow rate range can be extended to 0.5-60ml/min. Fast, modular software design, including method establishment, operation, permission management and system settings.

### Application Scope

- It covers the affinity chromatography applications such as Protein A, G and L, GST, Ni columns, etc.;
- Screening process of stably transfected cell strains (amount of sample loading above tens of milliliters);
- HEK293, Baculovirus expression system multiple sample preparation;
- High protein samples.

### Product Features

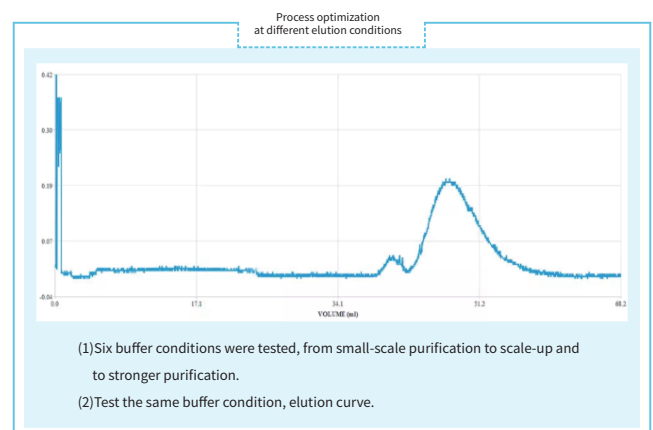
- Compact design and small footprint;
- Surface with touch screen operation, automatic sample collection by UV (280nm) detector;
- Eight channels are used in parallel, and the purification efficiency of the same sample is increased by 8 times;
- One channel can be opened independently without affecting the use of other channels;
- It is equipped with bubble traps and bubble sensors, which can protect the chromatographic column well;
- Strong compatibility, supporting various specifications of sample loading brackets and collection brackets;
- Software system is easy for use and flexible in design; and purification schemes can be customized according to needs without advanced training;
- Software interface provides real-time purification status information, such as: display chromatogram, flow rate, etc.

### Options

- Nucleic acid detector
- Ph and cond configuration



### Case Sharing



### Ordering Information

Product name	Article No.	Specification
Purilad high-throughput multi-channel protein purifier (with detector)	DNPL0101P	Set

## Purilad Modular Protein Purifier

### Product Description

The Purilad single-channel protein purifier adopts a modular design, which is convenient, fast and cost-effective. It is an ideal tool for pharmacology and protein platform research work.

### Application Scope

- It covers the affinity chromatography applications such as Protein A, G and L, GST, Ni columns, etc.;
- Screening process of stably transfected cell strains (amount of sample loading above tens of milliliters);
- HEK293, Baculovirus expression system multiple sample preparation;
- Samples with a wide variety of proteins and responsible processes.

### Product Features

- Compact design and small footprint;
- The modules support independent operation and series use, and can be equipped with up to 6 modules;
- Each module can run different methods, install chromatographic columns with different volumes, and run samples with different volumes;
- It is equipped with bubble traps and bubble sensors, which can protect the chromatographic column well;
- Strong compatibility, supporting various specifications of sample loading brackets and collection brackets;
- The sample loading area and the collection area can be controlled to a low temperature of 2°C, which has a good protective effect on the sample;
- Software system is easy for use and flexible in design; and purification schemes can be customized according to needs without advanced training;
- Software interface provides real-time purification status information, which can display chromatogram, flow rate, etc.

### Options

- Nucleic acid detector
- Ph and cond configuration



### Ordering Information

Product name	Article No.	Specification
Purilad Modular Protein Purifier	DNPL0102	Set

## Automatic CO<sub>2</sub> constant temperature shaker

### Product Description

Duoning's automatic CO<sub>2</sub> stacking constant temperature shaker can meet your efficient use of space. The core control system ensures high-precision control of speed, temperature, etc. to the greatest extent; and the independent modular design enables free switching of functions.

### Application Scope

It is suitable for animal cell culture, to meet the R&D and production needs of customers in different fields.

### Product Features

- 10-inch color touch screen, to display temperature, time, CO<sub>2</sub> concentration, humidity in real time;
- Pull-out rocker (fixed by one handle, fastened by one hand), convenient for customers to take and place samples;
- High-pressure flushing (inner cavity rounded corner design, flushable), easy to be cleaned;
- PID fuzzy control can realize high-precision temperature control (adaptable);
- Imported frequency conversion compressor refrigeration technology, energy saving and high efficiency (good heat preservation, less heat dissipation, frequency conversion refrigeration);
- Independent modular design, which can realize free switching of functions;
- The interior is equipped with lighting, which is convenient to observe the real cultivation state inside;
- It can be used alone or in combination of multiple sets, saving a lot of footprint;
- It can store the operating data of about two years and support U disk export, and the operating parameters in the exported data can be displayed in the form of curves;
- Three-level permission management, audit trail, log query and other functions can be realized.

### Options

Mobile phone WIFI monitoring (remote and timely handling of emergencies, escort for safe cell culture)



## Technical Parameters

	0720-0001	DNSI0101
Drive mode	Magnetic drive	Magnetic drive
Capacity	190L	401L
Maximum capacity	Flask clamp	Flask clamp
	150mlx30	150mx60
	250mlx30	250mlx60
	2000mlx8	2000mlx15
	5000ml (Thomson)x4	5000ml (Thomson)x6
	Sticky pad	Sticky pad
	150mlx35	150mlx104
	250mlx30	250mlx76
	2000mlx8	2000mlx15
	5000ml (Thomson)x4	5000ml (Thomson)x8
Speed range/accuracy	0 (stop), 30-300rpm/±1rpm	0 (stop), 30-300rpm/±1rpm
Oscillation amplitude	50mm	50mm
Temperature control range/accuracy	Room temperature -18°C ~60°C (minimum 4°C)/±0.1°C	Room temperature -18°C ~60°C (minimum 4°C)/±0.1°C
Temperature uniformity	±0.5°C (@37°C)	±0.5°C (@37°C)
CO <sub>2</sub> sensor	IR (Infrared ray)	IR (Infrared ray)
CO <sub>2</sub> concentration range/accuracy	0~20%/±0.1% (@5%)	0~20%/±0.1% (@5%)
Temperature recovery time after door opening for 30s	≤6min	≤6min
CO <sub>2</sub> recovery time after door opening for 30s	≤6min(@5%)	≤6min(@5%)
Maximum power	<780W	<1300W
Maximum load	10kg	20kg
Shaker size	570x470mm	900*560mm
Physical dimension	970x780x (530+80 foot height) mm	1400x866x (600+80 foot height) mm
Interior dimension	654x605x299mm	1005*690*350mm
Net weight	179kg	295kg

## Ordering Information

Product name	Article No.	Specification
CO <sub>2</sub> constant temperature shaker	0720-0001	1 set
	DNSI0101	1 set
Remote wifi monitor	IS-A64	1pcs
Active humidifier	IS-A90	1pcs
Active humidification reservoir	IS-A72	1pcs
Stacked constant temperature oscillator holder	IS-A93	1pcs
Self-adhesive silicone pad	IS-A47	12 pieces

## High-pressure homogenizer

### Product Description

High-pressure homogenizer has one or several reciprocating plungers. The materials enter into the valve group with adjustable pressure under the action of the plunger. After passing through the restrictive gap (working area) of a certain width, the materials instantly depressurized are ejected at a very high flow rate (1,000-1,500 m/s), and collide with the impact ring of one of the collision valve components, resulting in three effects: cavitation effect, impact effect and shear effect.

After these three effects are processed, the particle size of the material can be uniformly refined to below 100nm, and the with crushing rate of greater than 99%! !

ATS high pressure homogenizer conforms to GMP design, and passes the EU CE certification. All the pipes contacting materials are made of 316L or above, mainly used in bioengineering laboratories and pharmaceutical factories for large-scale processing of Escherichia coli, yeast and other samples. It is the standard equipment for R&D and production in bioengineering and biopharmaceutical industries. At the same time, it can also be used for emulsification and homogenization in dairy, food and beverage, fruit juice, pharmaceutical, biological and other industries.

### Product Features

- High crushing rate - the particle size of the material can be uniformly refined to below 100nm, with crushing rate of greater than 99%;
- Controllable temperature - on-site cooling system, with the temperature of lower than 15°C, which can directly absorb heat generated by crushing, and ensure the activity of intracellular substances;
- Simple operation - special feeding valve design, without the need to exhaust, and direct feeding;
- High safety - the pressure protection value can be designed to realize the function of over-pressure shutdown;
- Zero residue of materials - materials can be completely discharged, to truly realize 0 residue.



### Ordering Information

Product name	Model	Flow/H	Minimum throughput	Design pressure
High-pressure homogenizer	AH-NANO	5L	15ml	2000bar
	BASIC	10L	25ml	1500bar
	BASIC30	30L	50ml	1200bar
	AH-PILOT	40L	50ml	1500bar
	AH-PILOT 16	60L	70ml	1000bar

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