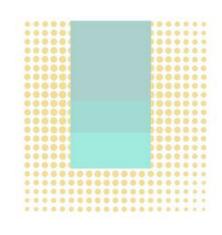


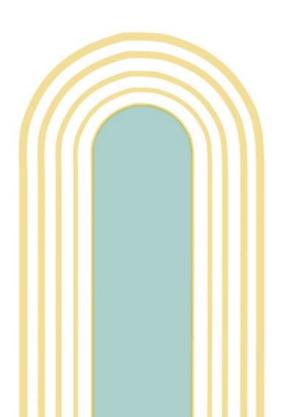
PRODUCT BROCHURE











Professional Solutions For Your Laboratory's Needs

We are Biovanix Technology

Biovanix Technology Co., Ltd. is located in the picturesque and economically vibrant city of Wuxi, Jiangsu Province. We are a high-tech enterprise dedicated to the field of biotechnology, specializing in the supply of high-quality liquid chromatography equipment and accessories. Driven by innovation and centered on service, we are committed to excellence and providing comprehensive solutions from the laboratory to the production line.

Our team at **Biovanix** consists of industry experts and technical elites who, with their profound professional knowledge and rich industry experience, continuously research and optimize our products. Our liquid chromatography equipment is recognized for its performance, stability, and precision, meeting international standards. Our products are widely used in pharmaceuticals, biotechnology, food testing, environmental monitoring, and other fields, earning the favor of customers worldwide.

Adhering to the business philosophy of "Quality First, Customer Supreme," **Biovanix Technology Co., Ltd.** is committed to becoming a leader in the field of biotechnology. We believe that through continuous technological innovation and outstanding customer service, we will grow together with our customers and create a bright future.

Business Introduction

The business scope of Biovanix Technology Co., Ltd. includes but is not limited to:

- 1. **Liquid Chromatography Equipment**: Offering a range of high-performance liquid chromatographs and ultra-high-performance liquid chromatographs to meet various customer needs.
- 2. **Accessories Supply**: Supplying a variety of accessories such as chromatographic columns, detectors, and sample preparation equipment to ensure the optimal operation of the equipment.
- **Laboratory Equipment**: Providing a range of laboratory instruments, including but not limited to centrifuges, incubators, microscopes, etc.
- 4 **Technical Services:** Providing professional technical support and after-sales service to help customers solve various technical issues encountered during use.
- Customized Services: Offering personalized customization services based on special customer needs, including equipment customization and experimental plan design.

We understand that each customer's needs are unique. Therefore, **Biovanix** is dedicated to providing personalized solutions to help customers improve experimental efficiency, optimize product quality, and ensure the accuracy and reliability of experimental results. We look forward to cooperating with you to create brilliance together.

Product List

77

LC Prepacked Column

LC Prepacked Column	
4	Silica Matrix LC Column
14	HILIC Column
16	Ion Exchange Column
18	SEC Column
21	DNA Analysis Column
22	Sugar Analysis Column
24	Chiral Column
28	Protein A Analysis Column
30	Guard Column
Sorbents	
32	Packing Materials For HPLC
33	Agarose Chromatography Media
47	PSDVB/PMMA Chromatography Media
Instruments & Hardw	rare
51	HPLC Column Packer
53	High-pressure Precision Plunger Pump
56	Glass Chromatography Column
60	Protein Chromatography System
62	Chromatography Hardware
63	Chromatography System

DAC System

LC Prepacked Column

Biovanix prepacked columns are versatile HPLC columns based on the silica-gel for reversed-phase/normal phase chromatography. Biovanix columns are made of spherical silica-gel particles which has low metal-ion content (<20 ppm) in total, high specific surface area and high mechanical strength. With unique chemical bonding technique, our products have excellent stability and reproducibility. They can meet the highest requirements for analysis and preparative applications.

Advantages

- Low silanol activity
- Uniform ligand binding
- Low metal content
- Narrow particle size
- Excellent stability

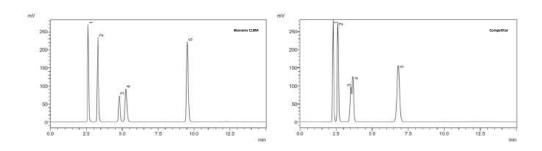
Products	Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
C18	3/5/10 um	100Å	300m²/g	16%	2-8
C18H	5/10 um	100Å	300m²/g	18%	2-8
C18 AQ	5/10 um	100Å	300m²/g	13%	2-8
C8	3/5/10 um	100Å	300m²/g	12%	2-8
C4-300	5/10um	300Å	100m²/g	3%	2-8
C8-300	5/10um	300Å	100m²/g	5%	2-8
C18-300	5/10 um	300Å	100m²/g	8%	2-8
Phenyl	3/5/10 um	100Å	300m²/g	8%	2-8
SiO2	3/5/10 um	100Å	300m²/g	-	2-8
NH ₂	3/5/10 um	100Å	300m²/g	4%	2-8
Amide	5/10 um	100Å	300m²/g	4%	2-8
CN	3/5/10 um	100Å	300m²/g	7%	2-8
Diol	5/10 um	100Å	300m²/g	8%	2-8

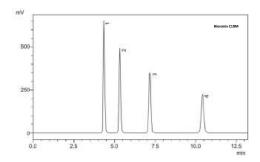
C18 Column

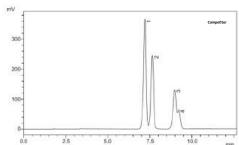
Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	100Å	300m²/g	16%	2-8

Application







Paraben

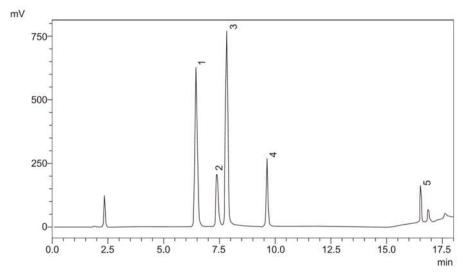
Column: C18 5μm 4.6×150mm Competitor ODS 5μm 4.6×150mm

Mobile Phase: Water / methyl

alcohol
Flow Rate: 1ml/min
Wavelength: 254nm

Temp.: 25℃

1 Methyl ester; 2 Ethyl ester; 3 Propyl ester; 4 Butyl ester



Water-soluble multivitamin

Column: C18 5µm 4.6×150mm Mobile Phase:

phosphoric acid buffer / acetonitrile

Flow Rate: 1ml/min Wavelength: 210nm

Temp.: 25°C 1 Pyridoxine;

2 VB1;

3 Nicotinamide;

4 Folic acid;

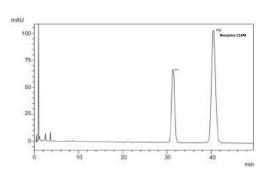
5 VB2

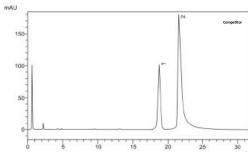
C18H Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	100Å	330m²/g	18%	2-8

Application





Ibuprofen/Benzene ketone

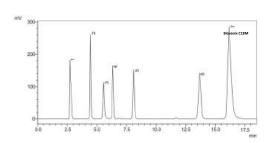
Column: C18H 5µm 4.6×150mm Competitor 5µm 4.6×150mm

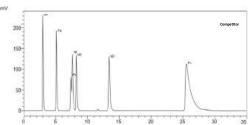
Mobile Phase:

phosphoric acid buffer / acetoni-

trile

Flow Rate: 2ml/min Wavelength: 214nm Temp.: 30°C





Polar/Nonpolar/ Neutral/Alkali Compounds

Column: C18H 5µm 4.6×250mm Competitor 5µm 4.6×250mm

Mobile Phase:

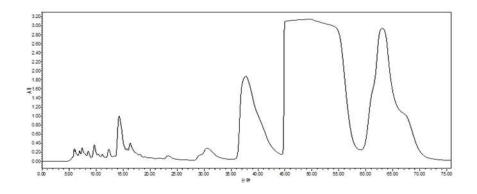
phosphoric acid buffer / methyl

alcohol

Flow Rate: 1ml/min Wavelength: 254nm Temp.: 30°C

- 1 Uracil; 2 Butyl p-hydroxybenzoate;
- 3 Propranolol;
- 4 Di-propyl ortho-phthalate;
- 5 Naphthalene; 6 Acenaphthene;
- 7 Amitriptyline

The purification of EPA in fish oil



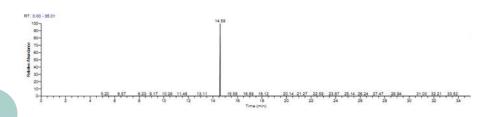
EPA in fish oil

Column: C18H 8µm

20×250mm

Sample: 90% EPA material

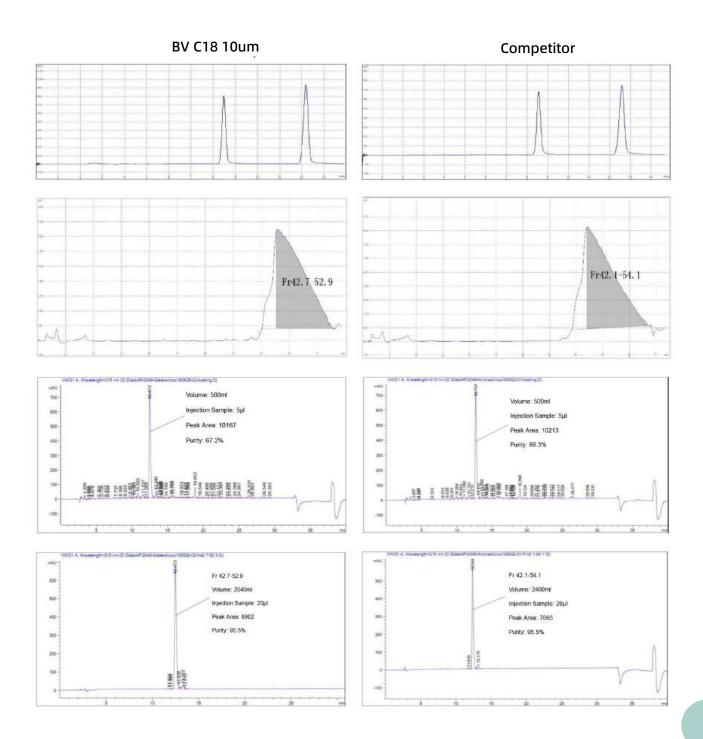
Finished sample
Purification: 99.7%



Peptides Purification Test

Biovanix C18H and word-leading competitive product in a peptides purification study. The results show that the Biovanix C18H is similar to the competitive product.

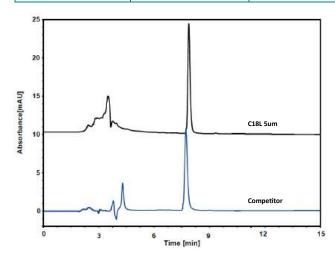
		Biovanix C18	Competitor
Dorformana	Column Height (cm)	21.3	21.1
Performance	Column Efficiency (TP)	70457	56935
	Injection Sample (g)	2.5	2.5
D. History	Recovery (%)	89.3	90.0
Peptides	Purity(%)	95.5	95.5
	Freeze-dried product (g)	1.1302	1.1317



C18 AQ Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5um	100Å	300m²/g	13%	2-8



Tripeptide (5ppm)

Column: C18AQ 5µm 4.6×250mm Mobile Phase: 70/30 v/v Water/

MeCN

Injection: 25µL Flow Rate: 1ml/min Wavelength: 220nm

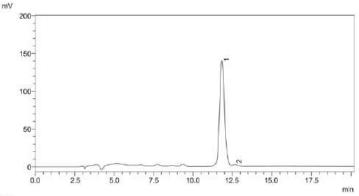
Temp.: 25℃

C8 Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	100Å	300m²/g	12%	2-8

Application

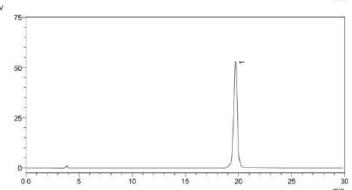


Orlistat

Column: C8 5µm 4.6×250mm Mobile Phase: water / EtOH

Flow Rate: 1ml/min Wavelength: 203nm

Temp.: 25℃

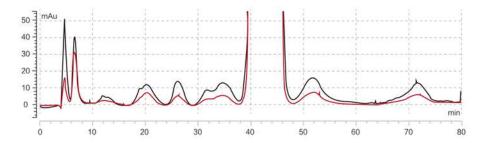


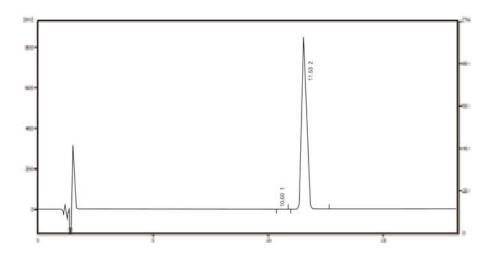
Omeprazole enteric-coated tablets

Column: C8 5µm 4.6×250mm Mobile Phase: water / EtOH

Flow Rate: 1ml/min Wavelength: 203nm

Temp.: 25 ℃





Orlistat

Column: C8 10µm 10×250mm Mobile Phase: EtOH solution

Flow Rate: 4ml/min Wavelength: 195nm

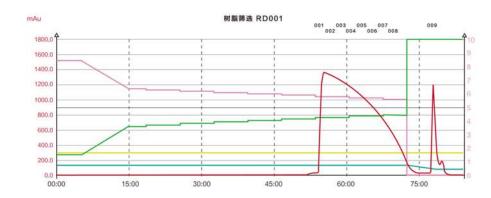
Sample:

Dissolved raw material with me-

thyl alcohol

Concentration: 50-60mg/ml

Finished sample
Purification: 99.8%
Single impurity < 0.1%
Recovery: ≥90%



Insulin

Column: C8 8µm 10×250mm

Time	Α	В
0	85%	15%
5min	85%	15%
15min	64%	36%
225min	34%	66%

	Cycle	Injection	Purification	P1	P1c	P2
	1	100ml	99.76%	0.21%	0.02%	0.01%
	1	50ml	99.74%	0.22%	0.02%	0.02%
	2	50ml	99.75%	0.22%	0.02%	0.01%
	3	50ml	99.74%	0.22%	0.02%	0.01%
Biovanix C8	4	50ml	99.74%	0.22%	0.02%	0.01%
	5	50ml	99.76%	0.21%	0.02%	0.01%
	6	50ml	99.75%	0.22%	0.02%	0.02%
	7	50ml	99.76%	0.21%	0.02%	0.02%
	8	50ml	99.74%	0.22%	0.02%	0.01%
	9	50ml	99.74%	0.22%	0.02%	0.02%

C4-300 Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	300Å	100m²/g	3%	2-8

C8-300 Column

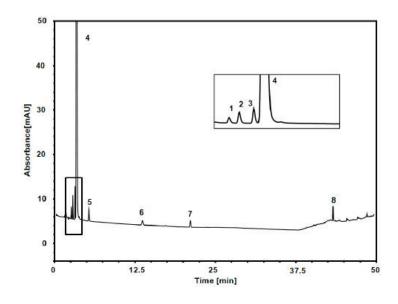
Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	300Å	100m²/g	5%	2-8

C18-300 Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	300Å	100m²/g	8%	2-8



Riboviror

Column: C18Bio, 5 μ m 4.6×150 mm

Mobile Phase:

A) Na₂SO₄, pH2.5;

B) 40/60 v/v MeCN/Na₂SO₄, pH2.5

Gradient:

t (min)	%A	%В
0	100	0
15	100	0
25	87	13
35	87	13
50	0	100

Flow Rate: 1.0 mL/minTemperature: $30 ^{\circ}\text{C}$ Injection: 10 µLDetection: UV 220 nm

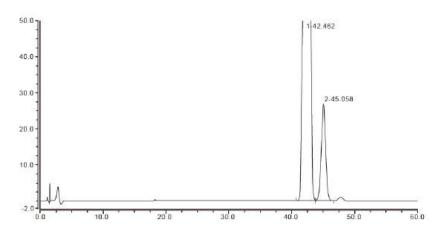
Peaks:

- triazolinic acid;
 Triazolamide;
 Ribavirin acid;
 Ribavirin;
- 5. Ribavirin 5 isomers;
- 6. Ribavirin methyl ester;7. Ribavirin 5' acetyl;
- 8. Ribavirin 5' benzoyl

Phenyl Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	100Å	300m²/g	8%	2-8



Roflumilast

Column: Phenyl 5µm 4.6×250mm Mobile Phase: 60/40 v/v Water/

MeCN

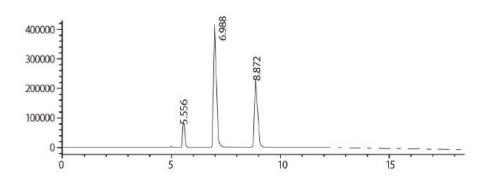
Injection: 10µL Flow Rate: 1ml/min Wavelength: 215nm

Temp.: 30 °C

SiO₂ Column

Parameters

Particle Size	Pore Size	Surface Area	pH Range
3/5/10um	100Å	300m²/g	2-8



Maleic Maleic Fumaric Acid

Column: SiO2 5μm 4.6×250mm **Mobile Phase:**

N-hexane/THF/Trifluoroacetic

acid = 650/350/1.2 Injection: 20µl Flow Rate: 0.8ml/min Wavelength: 255nm

Temp.: 30°C

Diol Column

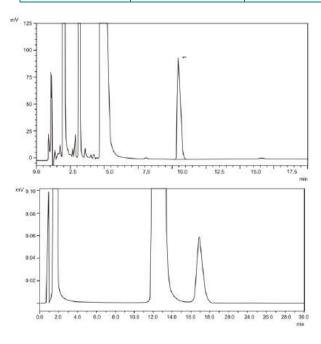
Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	100Å	300m²/g	8%	2-8

CN Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	100Å	300m²/g	7%	2-8



Benzalkonium Chloride

Column: BV CN 5μm 4.6×150mm Competitor CN 5μm 4.6×150mm

Mobile Phase:

phosphate buffer / acetonitrile

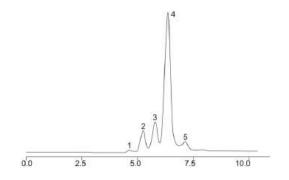
Flow Rate: 2.0ml/min Wavelength: 214nm

Temp.: 35℃

NH₂ Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	100Å	300m²/g	4%	2-8



Oligomaltose

Column: BV NH₂ 5µm 4.6×150mm **Mobile Phase:** water/ acetonitrile

Flow Rate: 1ml/min Detector: RID Temp.: 40°C Peak

1 glucose; 2 maltose; 3 maltodextrin; 4 maltotetraose; 5 maltopentaose

Amide Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5/10um	100Å	300m²/g	4%	2-8

Order Information

	2.1-50mm	2.1-150mm	4.6-50mm	4.6-150mm
C18 3um	721-03010-002105	721-03010-002115	721-03010-004605	721-03010-004615
Phenyl 3um	706-03010-002105	706-03010-002115	706-03010-004605	706-03010-004615
SiO2 3um	720-03010-002105	720-03010-002115	720-03010-004605	720-03010-004615
NH2 3um	705-03010-002105	705-03010-002115	705-03010-004605	705-03010-004615
CN 3um	704-03010-002105	704-03010-002115	704-03010-004605	704-03010-004615

	4.6-150mm	4.6-250mm	10-250mm	20-250mm	30-250mm
C18 5um	721-05010-004615	721-05010-004625	721-05010-010025	721-05010-020025	721-05010-030025
C18H 5um	722-05010-004615	722-05010-004625	722-05010-010025	722-05010-020025	722-05010-030025
C18 AQ 5um	723-05010-004615	723-05010-004625	723-05010-010025	723-05010-020025	723-05010-030025
C8 5um	725-05010-004615	725-05010-004625	725-05010-010025	725-05010-020025	725-05010-030025
C4-300 5um	730-05010-004615	730-05010-004625	730-05010-010025	730-05010-020025	730-05010-030025
C8Bio 5um	729-05010-004615	729-05010-004625	729-05010-010025	729-05010-020025	729-05010-030025
C18Bio 5um	728-05010-004615	728-05010-004625	728-05010-010025	728-05010-020025	728-05010-030025
Phenyl 5um	706-05010-004615	706-05010-004625	706-05010-010025	706-05010-020025	706-05010-030025
SiO2 5um	720-05010-004615	720-05010-004625	720-05010-010025	720-05010-020025	720-05010-030025
NH2 5um	705-05010-004615	705-05010-004625	705-05010-010025	705-05010-020025	705-05010-030025
CN 5um	704-05010-004615	704-05010-004625	704-05010-010025	704-05010-020025	704-05010-030025
Phenyl 5um	706-05010-004615	706-05010-004625	706-05010-010025	706-05010-020025	706-05010-030025
Diol 5um	707-05010-004615	707-05010-004625	707-05010-010025	707-05010-020025	707-05010-030025
Amide 5um	708-05010-004615	708-05010-004625	708-05010-010025	708-05010-020025	708-05010-030025

	4.6-250mm	10-250mm	20-250mm	30-250mm	50-250mm
C18 10um	721-10010-004625	721-10010-010025	721-10010-020025	721-10010-030025	721-10010-050025
C18H 10um	722-10010-004625	722-10010-010025	722-10010-020025	722-10010-030025	722-10010-050025
C8 10um	725-10010-004625	725-10010-010025	725-10010-020025	725-10010-030025	725-10010-050025
C4-300 10um	730-10010-004625	730-10010-010025	730-10010-020025	730-10010-030025	730-10010-050025
C8-300 10um	729-10010-004625	729-10010-010025	729-10010-020025	729-10010-030025	729-10010-050025
C18-300 10um	728-10010-004625	728-10010-010025	728-10010-020025	728-10010-030025	728-10010-050025
SiO2 10um	720-10010-004625	720-10010-010025	720-10010-020025	720-10010-030025	720-10010-050025

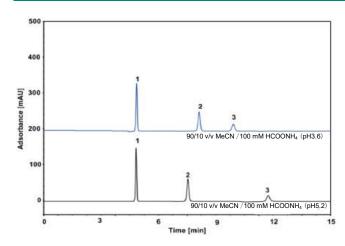
HILIC Column

Hydrophilic interaction liquid chromatography (HILIC) is a chromatographic technique used to improve retention of very polar substances under reversed-phase chromatography conditions. HILIC has a wide variety of stationary phases, and in principle, any stationary phase with the polar surface can be used in HILIC mode. Therefore, stationary phases such as silica, amino (NH2), diol, amide (AM) and cyanogen (CN) packing materials can also be used as stationary phases for HILIC.

HILIC-Diol Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	120Å	330m²/g	10%	2-8



Column: HILIC-Diol 5 μm **Dimension:** 4.6×250mm

Mobile phase:

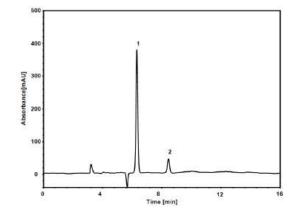
Blue: $90/10 \text{ v/v MeCN} / 100 \text{ mM HCOONH}_4 \text{ (pH3.6)}$ Black: $90/10 \text{ v/v MeCN} / 100 \text{ mM HCOONH}_4 \text{ (pH5.2)}$

Flow rate: 1 mL/min Temperature: 30°C Injection: 5 µL Detection: 218 nm Peaks: 1. DICY 2. MET 3. Melamine

HILIC-Amide Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5um	120Å	300m²/g	7.5%	2-7

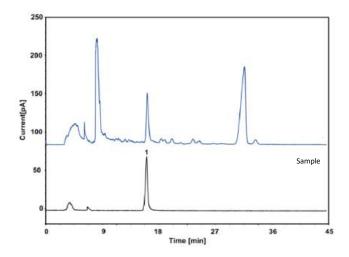


Glycine & Methionine Column: HILIC-Amide, 5 μm **Dimension:** 4.6×250 mm

Mobile Phase: 75/25 v/v AcCN / 25 mM MSP,

pH5.5

Flow Rate: 1.0 mL/min Temperature: 35 °C Injection: 10 µL Detection: UV 210 nm Peaks: 1. Glycine 2. Methionine



Column: HILIC-Amide 5 μ m Dimension: 4.6×250mm

Mobile phase:

80/10 v/v MeCN /100 mM CH₃COOH

Flow rate: 0.5 mL/min Temperature: 20°C Injection: 10 μL Detection: CDA

Peaks: 1. Stachydrine

HILIC-Imidazole Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5um	120Å	300m²/g	5.5%	2-7

Order Information

Particle Size Column I.		Length	Product Name		
(µm)	(mm)	(mm)	HILIC-Diol	HILIC-Amide	HILIC-Imidazole
		250	A020-050012-04625	A068-050012-04625	A208-050012-04625
_	1.6	150	A020-050012-04615	A068-050012-04615	A208-050012-04615
5	4.6	100	A020-050012-04610	A068-050012-04610	A208-050012-04610
		50	A020-050012-04605	A068-050012-04605	A208-050012-04605
		150	A020-030012-04615	A068-030012-04615	A208-030012-04615
_		100	A020-030012-04610	A068-030012-04610	A208-030012-04610
3	4.6	50	A020-030012-04605	A068-030012-04605	A208-030012-04605
		30	A020-030012-04603	A068-030012-04603	A208-030012-04603
5	4.6	10	A020-030012-04601	A068-030012-04601	A208-030012-04601
3	4.6	10	A020-030012-04601	A068-030012-04601	A208-030012-04601

Ion Exchange Column

Biovanix ion exchange IEX columns are based on modified silica particles and include weak cation exchange (WCX), strong cation exchange (SCX) and strong anion exchange (SAX) columns.

WCX columns are carboxylic acid modified silica particles that designed for separating charged variants in proteins, including monoclonal antibodies (mAbs) and related substances.

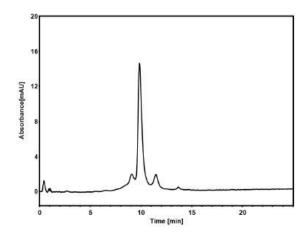
SCX columns are based on sulfonate-modified silica particles. These columns feature a strong cation exchange property and are suitable for cationic analytes.

SAX columns are based on quaternary ammonium modified silica particles that feature a strong anion exchange property and are suitable for separating anionic analytes.

Main Features

- Optimal selectivity for separating antibody charged variants
- Good peak shape and low carryover
- High column efficiency and mechanical strength
- Excellent tolerance to acids, bases and organic solvents
- Good column-to-column consistency

Product Name	WCX Column	SCX Column	SAX Column		
Functional Group	Carboxylic Acid	Sulfonic Acid	Quaternary Ammonium		
Substrate	Monodis	Monodispersed spherical PS/DVB particles			
Particle Size	5 & 10 μm				
Pore Size	Nonporous				
Pressure Limit	4500 psi for 10 μm 5000 psi for 5 μm				
Temperature Lim- it	60℃				
pH Range	2-12				



mAb

Column: WCX, 10 μm Dimension: 4.6×150 mm

Mobile Phase: A) 20 mM ACES, pH7.0

B) 300 mM NaCl in 20 mM ACES

Gradient: t (min) %A %B -20 80 20 0 80 20 5 80 20 25 60 25.1 0 100 30 100 0

Flow Rate: 1.0 mL/min Temperature: 30°C Injection: 2 µL Detection: UV 280 nm

Sample: mAb (5.0 mg/mL in mobile phase A)

Fab and Fab-PEG

Column: SCX, 10 μm **Dimension:** 4.6×150 mm

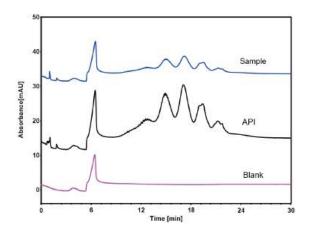
Mobile Phase: A) 20 mM MES, pH5.5

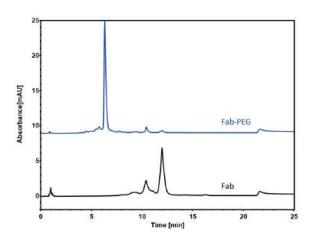
B) 300mM NaCl in 20 mM MES, pH5.5

Gradient: t(min) %A %B 100 -10 0 100 0 20 60 40 20.1 0 100 25 0 100

Flow Rate: 1.0 mL/min Temperature: 30 °C Injection: 2 µL Detection: UV 280 nm

Sample: Fab-PEG (3 mg/mL in 50mM sodium acetate solution) Fab (5 mg/mL in 50mM phosphate buffer)





Glycoprotein

Column: SAX, 10 µm Dimension: 4.6×250 mm

Mobile Phase: A) 20 mM phosphate buffer, pH3.0

B) 300 mM NaCl in 20 mM phosphate buffer, pH3.0

 Gradient:
 t(min)
 %A
 %B

 -15
 100
 0

 0
 100
 0

 20
 0
 100

 23
 0
 100

Flow Rate: 1.0 mL/min Injection: 5 µL Temperature: 30 °C Detection: UV 280 nm

Sample: API (40 mg/mL in mobile phase A) Injection sample (10 mg/mL)

Order Information

	Particle Size	4.6-50mm	4.6-100mm	4.6-150mm	4.6-250mm
MCV	5um	B311-050000-004605	B311-050000-004610	B311-050000-004615	B311-050000-004625
WCX	10um	B311-100000-004605	B311-100000-004610	B311-100000-004615	B311-100000-004625
5.GV	5um	B411-050000-004605	B411-050000-004610	B411-050000-004615	B411-050000-004625
SCX	10um	B411-100000-004605	B411-100000-004610	B411-100000-004615	B411-100000-004625
CAV	5um	B611-050000-004605	B611-050000-004610	B611-050000-004615	B611-050000-004625
SAX	10um	B611-100000-004605	B611-100000-004610	B611-100000-004615	B611-100000-004625

SEC Column

Biovanix SEC columns are a family of high performance, size exclusion chromatography (SEC) columns for separating a broad range of biomolecules based on the size of analytes. The column technology involves creation of a neutral hydrophilic layer on the surface of specially designed high-strength monodispered silica particles followed by well established production process. Therefore, Biovanix SEC columns can be used in pharmaceutical, biopharmaceutical and academic research applications.

Features

High column efficiency, high resolution;

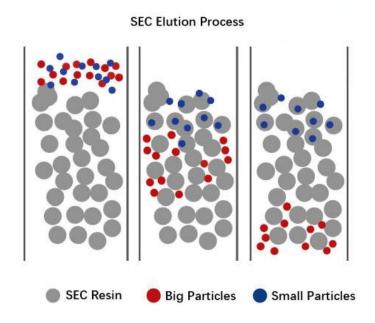
Minimal undesired interactions between stationary phase and analytes, resulting in good peak shape and recovery;

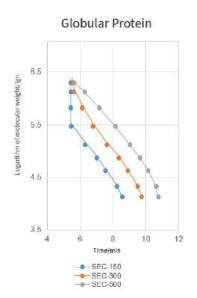
High physical strength for better column lifetime;

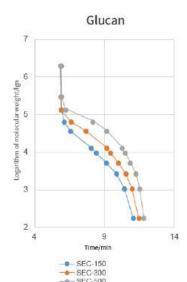
Broad range of applications, including small molecule drugs, peptides, proteins, oligos, glycans, etc.

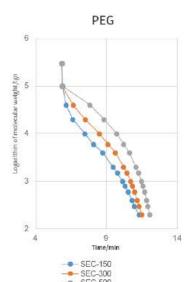
Types

- SEC-120 designed for mallmolecule, drugs, peptides, glycans, small oligos.
- SEC-150 designed for separating peptides, glycans, small oligos, small proteins.
- SEC-300 designed for mAb aggregate determination.
- SEC-500 designed for separating larger proteins and oligos.



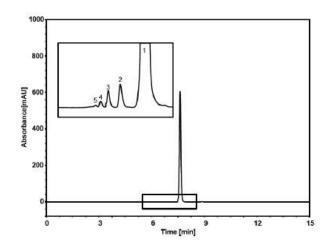






Parameter

	SEC-150	SEC-300	SEC-500
Ligand		Diol	
Substrate	Monod	isperse High-pure Silica	Particle
Particle Size		5um	
Pore Size	150A	300A	500A
pH Range		2-8	
Temperature		<40°C	
Pressure		6000psi	
Ligand Range (PEG)	200-15,000	1.000-100,000	5,000-200,000
Ligand Range (Glucan)	1,000-50,000	5,000-150,000	20,000-500,000
Ligand Range (Globular Protein)	5,000-150,000	10,000-1,000,000	20,000-2,000,000



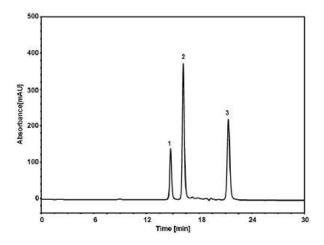
Cetiriaxone Sodium

 $\begin{array}{ll} \textbf{Column:} \; \text{SEC-120, 5} \; \mu m \\ \textbf{Dimension:} & 7.8 \times 300 \; mm \end{array}$

Mobile Phase: 5mM phosphate buffer, pH7.0

Flow Rate: 1.0 mL/min Temperature: 30 °C Injection: 2 μ L

Detection: UV 231 nm **Peaks:** 1. Ceftriaxone 2~5. Polymers of Ceftriaxone



Peptide

Column: SEC-150, 5 μm **Dimension:** 7.8×300 mm

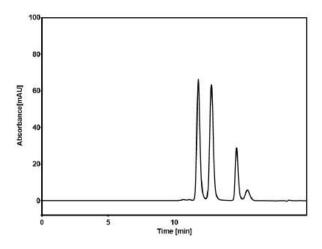
Mobile Phase: 90/10 v/v 300 mM NaCl in 50

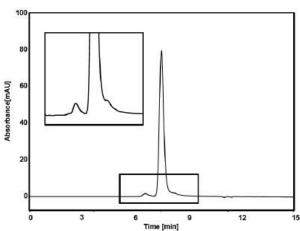
mM phosphate buffer/MeCN Flow Rate: 0.6 mL/min Temperature: 25 °C

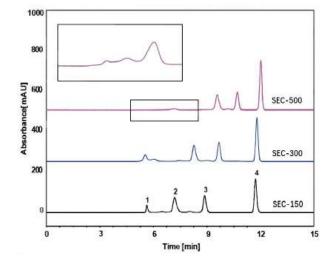
Temperature: 25 °C **Injection:** 10 μL

Detection: UV 215 nm

Peaks: 1. P-3000 2. P-2000 3. P-1000







Trispecific Antibody

Column: SEC-300, 3 µm Dimension: 4.6×300 mm

Mobile Phase: 90/10 v/v 300 mM NaCl in 50 mM

phosphate buffer, pH6.8 / MeCN

Flow Rate: 0.21 mL/min Temperature: 30 °C Injection: 2 µL

Detection: UV 280 nm

Sample: Trispecific Antibody (5 mg/mL)

Fusion Protein

Column: SEC-500, 5 µm Dimension: 4.6×300 mm

Mobile Phase: 150 mM phosphate buffer, pH6.8

Flow Rate: 0.35 mL/minTemperature: $30 \,^{\circ}\text{C}$ Injection: $5 \, \mu\text{L}$

Detection: UV 280 nm

Sample: Fusion Protein (1 mg/mL in H2O)

Column Black: SEC-150, 5µm Column Blue: SEC-300, 5µm Column Red: SEC-500, 5µm Dimension: 4.6×300mm

Mobile phase: 150 mM Phosphate Buffered Saline (pH

6.8)

Flow rate: 0.35 mL/min Temperature: 30 °C Injection: 5µL

Detection: UV 280 nm

Peaks:

Thyroglobulin (0.5mg/mL) -669,000Da
 Conalbumin (1mg/mL) -75,000Da
 Ribonuclease A (1mg/mL) -13,700Da

4. Uracil (0.1mg/mL) -112Da

Order Information

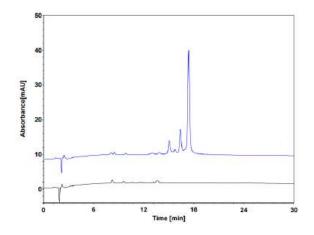
	5um 7.8×300mm	5um 4.6×300mm	5um 4.6×50mm	5um 4.6×10mm
SEC-150	213-05015-07830	213-05015-04630	213-05015-04605	213-05015-04601
SEC-300	213-05030-07830	213-05030-04630	213-05030-04605	213-05030-04601
SEC-500	213-05050-07830	213-05050-04630	213-05050-04605	213-05050-04601

DNA Analysis Columns

DNA columns are based on the most advanced column technology and designed for highly efficient separation and precise characterization of oligonucleotides including DNA/RNA, mRNA and plasmid by liquid chromatography and LC-MS.

- DNA RP columns are based on macroporous PS/DB microspheres with high crosslinking degree and they are suitable for the separation of large DNA and RNA molecules.
- DNA 200-C18, based on monodispersed C18 bonded silica gel, is used for the separation of smaller oligonucleotides.
- DNA 1000-C18 is based on monodispersed C18 bonded silica gel for the separation of large oligonucleotides, DNAs and RNAs.

Product	DNA RP	DNA 120-C18	DNA 1000-C18
Functional Group	Quaternary Ammonium	Octadecyl	Octadecyl
Substrate	PS-DVB	Spherical Silica	Spherical Silica
Particle Size	5um	3um/5um	3um/5um
Pore Size	-	200A	1000A
Pressure Limit	5000 psi	5000psi for 5µm 6000psi for 3µm	5000psi for 5μm 6000psi for 3μm
Temperature Limit	80°C	50°C	50°C
pH Range	2-12	2-11	2-11



RNA in Vaccines

Column: DNA1000 C18, 5 μm **Dimension:** 4.6×150 mm

Mobile Phase: A) 0.1 M CH3COOH-Et3N solution, pH7.0 B) 25/75 v/v MeCN/ 0.1 M CH3COOH-Et3N solution, pH7.0

 Gradient:
 t (min)
 %A
 %B

 0
 60
 40

 30
 35
 65

 31
 60
 40

 40
 60
 40

Flow Rate: 1.0 mL/min Temperature: 60 °C Injection: 10 µL Detection: UV 254 nm

Sample: Long strands of RNA in vaccines (1000~2000 nt)

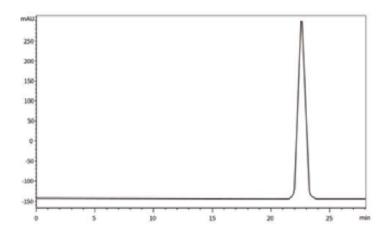
Order Information

	4.6×250mm	4.6×150mm	2.1×150mm	2.1×50mm
DNA RP	D301-050000-04625	D301-050000-04615	-	-
DNA 120-C18	D003-030020-04625	D003-030020-04615	D003-030020-02115	D003-030020-02105
DNA 1000-C18	D003-050100-04625	D003-050100-04615	D003-050100-02115	D003-050100-02105

Sugar Analysis Column

Biovanixsil Sugar analysis column can meet the analysis requirements of different types of polysaccharides, sugar alcohols and organic acids. These columns are produced with two kinds of PS-DVB monodisperse microsphere with different degree of cross-linking. Hydrogen-type, so-dium-type and calcium-type were formed through a unique sulfonation bonding process based on coordination exchange principle., they shows different selectivity in the analysis.

	Sugar-10H	Sugar-10Ca	Sugar-10Na	
Ligand	-SO₃H	-SO₃Ca	-SO₃Na	
Substrate		Monodisperse PS-DVB subst	rate	
Particle Size	6um/8um			
Degree of crosslinking	0.1			
pH Range	1-3	5-9	5-9	
Temperature		<95℃		
Pressure	1200psi			
Application	Organic acids and alcohols mixer	honey and oligosaccha- rides	sugars and mannitols	

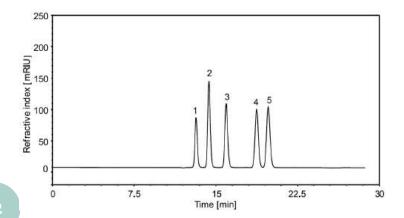


Riboviron, RBV

Column: Sugar-10H, 8um **Dimension:** 7.8×300mm

Mobile phase: H2SO4 H2O, pH2.5

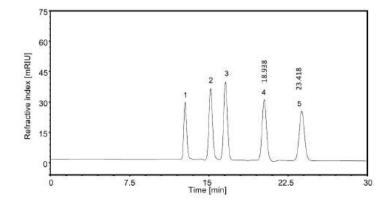
Flow rate: 0.5mL/min Temperature: 30°C Detection: UV207nm



Column: Sugar-10H, 6um
Dimension: 7.8x300mm
Mobile phase: 9mM H2SO4
Flow rate: 0.5mL/min
Temperature: 65°C
Injection: 5µL

Detector: RID Samples:

1. Citric acid; 2. Malic acid; 3. Succinic acid; 4. Formic acid; 5. Acetic acid.



Mannitol

Column: Sugar-10Ca, 6um
Dimension: 7.8x300mm
Mobile phase: H2O
Flow rate: 0.5mL/min
Temperature: 80°C
Injection: 5uL
Detection: RID

Sample:
1. Sucrose; 2. Galactose;

3. Fructose; 4. Mannito; 5. Sorbitol

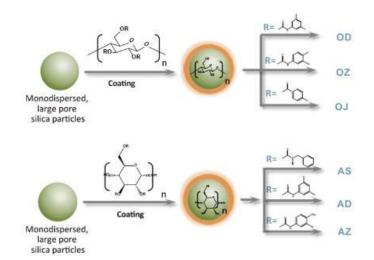
Order Information

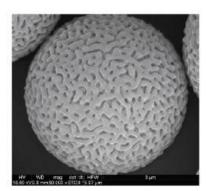
Particle Size	Column Size	Sugar-10H	Sugar-10Na	Sugar-10Ca
Gum	4.6*250mm	017-06010-04625	058-06010-04625	019-06010-04625
6um	7.8*250mm	017-06010-07825	058-06010-07825	019-06010-07825
Quino	4.6*250mm	017-08010-04625	058-08010-04625	019-08010-04625
8um	7.8*250mm	017-08010-07825	058-08010-07825	019-08010-07825

Chiral Column

Biovanix Chiral Columns are designed for chiral separation. Unichiral® is polysaccharide derivative bond with microporous silica-gel substrate which has the advantages of high capacity of cellulose/amylose derivative, good stability and high chiral separation ability.

Biovanix Chiral Columns include OD, OJ, OZ, AS and AD series. 5um columns are for analysis, 10um columns are for preparation. OD and AD columns are the most widely used for HPLC analysis, semipreparative, SFC of chiral compound.

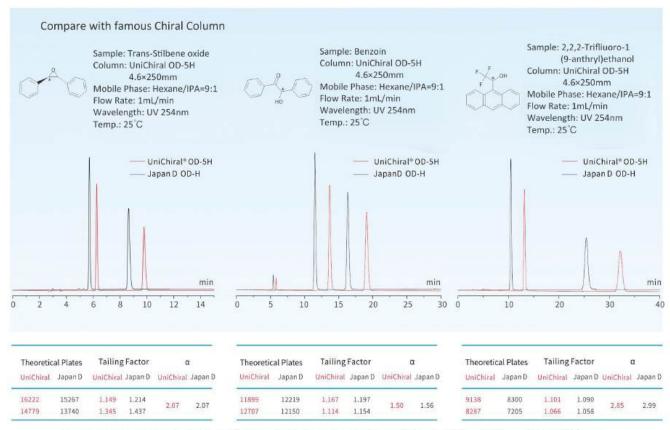




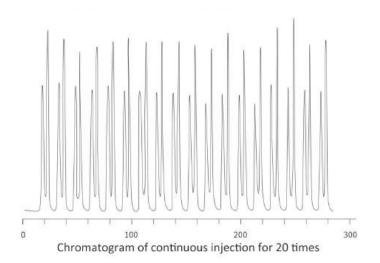
SEM of Chiral particles

Specification

Product Name	Surface Function	nal Groups Column Specification
Chiral OD	Cellulosetris(3,	,5-dimethylphenylcarbamate)
Chiral OJ	Cellulosetris(4-	-methylbenzoate)
Chiral OZ	Cellulosetris(3-	-chloro-4-methylbenzylcarbamate) 5 μm, 4.6×50 mm 5 μm, 4.6×100 mm
Chiral AS	Amylosetris[(5)	5 μ m, 4.6×150 mm)- α -methylbenzylcarbamate) 5 μ m, 4.6×250 mm
Chiral AD	Amylosetris(3,5	5-dimethylphenylcarbamate)
Chiral AZ	Amylosetris(3-c	chloro-4-methylbenzylcarbamate)



Compare with Japan products, UniChiral® chiral column media has similar selective, higher column efficiency, and better peak type symmetry.



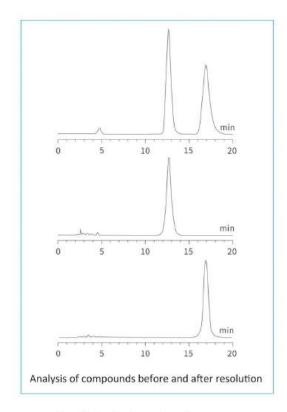
Chiral Column Application

Column: UniChiral® OD-5H 50×250mm

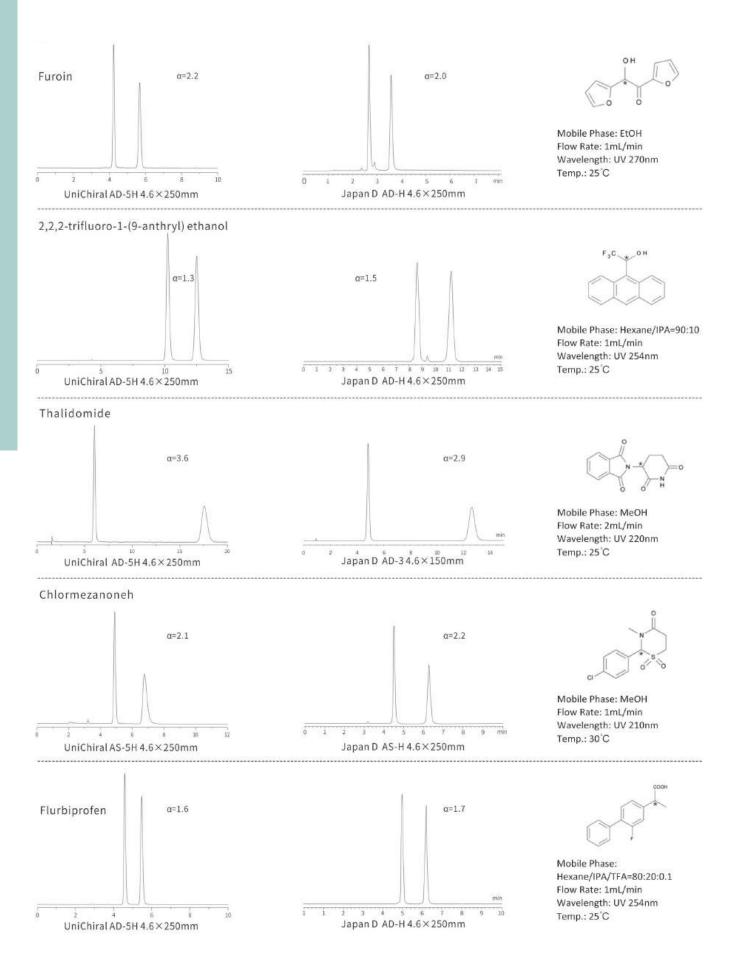
Injection: 100mg every time ee Value: >99

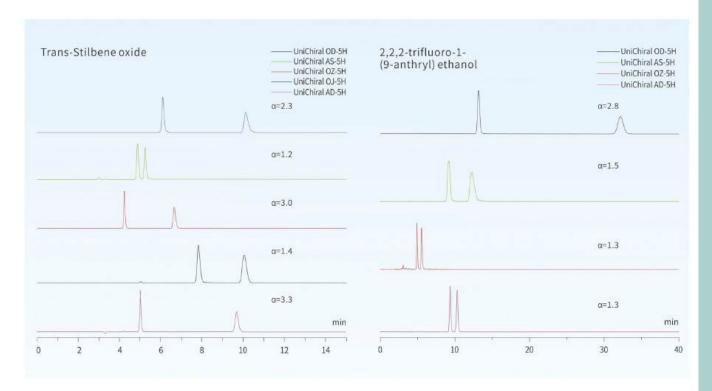
Yield: ~90% Flow Rate: 80m

Flow Rate: 80mL/min Column Pressure: 2MPa



UniChiral® chiral column has lower pressure and satisfied separation ability.



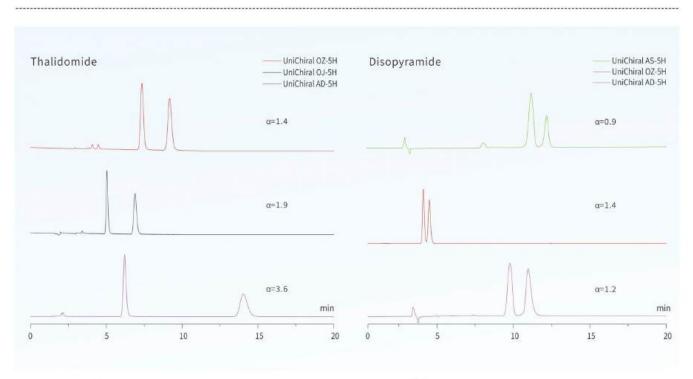


Column: 4.6×250mm, 5µm Mobile Phase: Hexane/IPA=90:10

Flow Rate: 1mL/min Wavelength: UV 254nm Temp.: 25°C F₃C O H

Column: 4.6×250mm, 5µm Mobile Phase: Hexane/IPA=90:10

Flow Rate: 1mL/min Wavelength: UV 254nm Temp.: 25°C



Column: 4.6×250mm, 5μm Mobile Phase: MeOH Flow Rate: 2mL/min Wavelength: UV 220nm

Temp.: 25°C

NH.3 * N

Column: 4.6×250mm, 5μm Mobile Phase: EtOH/DEA=99.9:0.01

Flow Rate: 1mL/min Wavelength: UV 254nm

Temp.: 25°C

Prosep Protein A Analysis Column

Biovanix Prosep Protein A Analysis column is designed for fast analysis of monoclonal antibody (mAb) concentration (titer) with protein A affinity chromatography. Alkali resistant recombinant Protein A (rProtein A) ligand used in this product has specific binding ability to the Fc region of immunoglobulins. The matrix of Protein A column is PS-DVB (Polystyrene Divinylbenzene) particles, which are highly cross-linked for enhanced mechanical stability and particle strength. Compared to agarose base, hydro-



philic PS-DVB particles have higher pressure stability, dynamic binding capacity (DBC) and longer lifetime. Hence, Protein A column is an excellent choice for mAbs titer analysis.

Advantages

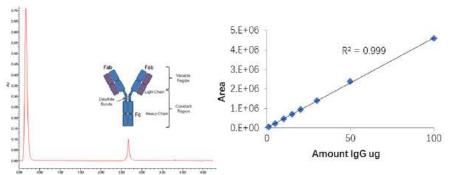
- Direct use on HPLC instruments
- High dynamic binding capacity, quick mass transfer
- Minimum nonspecific absorption, accurate determination
- Fast analysis cycle time: 2-5 minutes
- Satisfactory linearity in wide concentration range: 0.02-10 mg/ml
- Long lifetime
- Alkali resistance: 0.1-0.5 M NaOH cleaning conditions

Parameter

	Prosep Protein A Column	Prosep Protein A Plus Column	
Column Size	2.1mm ID × 30mm	L; 4.6mm ID × 50mm L	
Column Tube Material	316L Stainl	ess steel, PEEK	
Support Matrix	Polystyrene Divir	ylbenzene (PS-DVB)	
Ligand	Recombinant Protein A		
Particle Size	30µm	20µm	
Shipping Solution	0.02 M sodium phosphate, pH 7.0, 0.02% sodium azide		
pH range	рН	l 2-10	
Maximum Pressure	10	00 psi	
Cleaning Agents	0.1-0.5M NaOH		
Cycle Time	2-5 minutes		
Temperature Stability	4-	40 °C	

Excellent Linearity

Quantitative analysis for antibody fermentation broth by Prosep Protein A column.



Column: Prosep A 2.1×30mm

Eluent A: 20mM PB, 150mM NaCl,

pH7.4

Eluent B: 0.1%HCl, 150mM NaCl

Gradient: 0% B for 1.0 min, 100% B

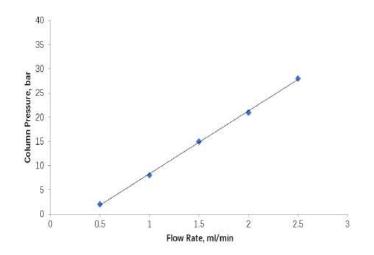
for 2.0 min, 0% B for 2.0 min

Flow rate: 1ml/min

Sample: mAb

Flow Rate and Pressure

The operating flow rate is 0.5-3 ml/min as recommended for HPLC system.



Column: Prosep A, 2.1×30mm

Eluent A: 20mM PB, 150mM

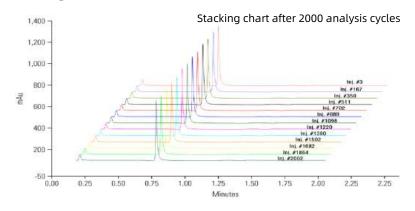
NaCl, pH7.4

Eluent B: 0.1%HCl, 150mM NaCl

Temp: 25 ℃

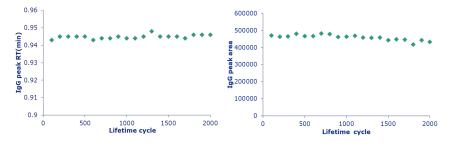
System: Waters 1525 pump

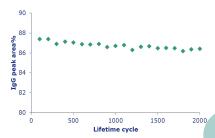
Long Lifetime



Column	Prosep A, 2.1×30 mm	
Eluent A	50 mM Sodium Phosphate, 150 mM NaCl, pH 7.0	
Eluent B	0.1% HCl, 150 mM NaCl, pH 1.9	
Flow Rate	2.0 ml/min	
Gradient	0% B for 0.2 min, 100% B for 0.60 min, 0% B for 1.20 min	
Temperature	25℃	
Detection	280 nm	
Injection volume	10 uL	
Sample	hlgG, 1 mg/mL	
· ·		

Statistical analysis of data demonstrates

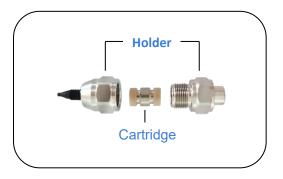




Guard Column

Cartridge + Holder

Size: 4.6-10mm, 10-10mm, 20-10mm









Precolumn

Size: 4.6-50mm, 10-30mm, 10-50mm, 20-30mm, 20-50mm, 30-50mm, 50-50mm

Packing material: matched with prepacked columns





USP Listing	Packing	Products
L1	Octadecyl silane chemically bonded to porous or non-porous silica or ceramic microparticles, 1.5 to 10 µm in diameter, or a monolithic rod	C18
L3	Porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod	Silica
L7	Octylsilane chemically bonded to totally or superficially porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod	C8
L8	An essentially monomolecular layer of aminopropylsilane chemically bonded to totally porous silica gel support, 1.5 to 10 µm in diameter, or a monolithic silica rod	NH2
L9	Irregular or spherical, totally porous silica gel having a chemically bonded, strongly acidic cation-exchange coating, 3 to 10 µm in diameter	SCX
L10	Nitrile groups chemically bonded to porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod	CN
L11	Phenyl groups chemically bonded to porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod	Phenyl
L14	Silica gel having a chemically bonded strongly basic quaternary ammonium anion- exchange coating, 5 to 10 µm in diameter	SAX
L17	Strong cation-exchange resin consisting of sulfonated cross-linked styrene- divinglbenzene copolymer in the hydrogen form, 6 to 12 µm in diameter	Sugar-10H
L19	Strong cation-exchange resin consisting of sulfonated cross-linked styrene- divinylbenzene copolymer in the calcium form, 5 - 15 µm in diameter	Sugar-10Ca
L20	Dihydroxypropane groups chemically bonded to porous silica or hybrid particles, 1.5 to 10 µm in diameter, or a monolithic silica rod	HILIC-Diol SEC
L26	Butyl silane chemically bonded to totally porous or superficially porous silica particles, 1.5 to 10 µm in diameter	C4
L40	Cellulose tris-3,5-dimethylphenylcarbamate coated porous silica particles, 3 µm to 20 µm in diameter	Chiral CND
L43	Pentafluorophenyl groups chemically bonded to silica particles by a propyl spacer, 1.5 to 10 µm in diameter	PFP
L51	Amylose tris-3,5-dimethylphenylcarbamate-coated, porous, spherical, silica particles, 3 to 10 µm in diameter	Chiral CMD
L58	Strong cation-exchange resin consisting of sulfonated cross-linked styrene- divinglbenzene copolymer in the sodium form, about 6 to 30 µm diameter	Sugar-10Na
L60	Spherical, porous silica gel, 10 µm or less in diameter, the surface of which has been covalently modified with alkyl amide groups and endcapped	Polar C18
L62	C30 silane bonded phase on a fully porous spherical silica, 3 to 15 µm in diameter	C30
L68	Spherical, porous silica, 10 µm or less in diameter, the surface of which has been covalently modified with alkyl amide groups and not endcapped	HILIC-Amide Glycan
L78	A silane ligand that consists of both reversed-phase (an alkyl chain longer than C8) and anion-exchange (primary, secondary, tertiary, or quartenary amino groups) functional groups chemically bonded to porous or non-porous silica or ceramic micro-particles, 1.0 to 50 µm in diameter, or a monolithic rod	SAA
L80	Cellulose tris(4-methylbenzoate)-coated, porous, spherical, silica particles, 5 - 20 µin diameter	Chiral CNJ
L90	Amylose tris-[(S)-alpha-methylbenzylcarbamate] coated on porous, spherical silica particles, 3 to 10 µm in diameter	Chiral CMS
L118	Aqueous polymerized C18 groups on silica particles, 1.2 to 5 µm in diameter	PAH

Packing Material

Packing Materials For HPLC Column

Biovanix prepacked columns are versatile HPLC columns based on the silica-gel for reversed-phase/normal phase chromatography. Biovanix columns are made of spherical silica-gel particles which has low metal-ion content (<20 ppm) in total, high specific surface area and high mechanical strength. With unique chemical bonding technique, our products have excellent stability and reproducibility. They can meet the highest requirements for analysis and preparative applications.

Advantages

- Low silanol activity
- Uniform ligand binding
- Low metal content
- Narrow particle size
- Excellent stability

Products	Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
C18	5/10/20/30/50um	100Å	300m²/g	16%	2-8
C8	5/10 um	100Å	300m²/g	12%	2-8
Phenyl	5/10 um	100Å	300m²/g	8%	2-8
SiO2	5/10/30/50 um	100Å	300m²/g	-	2-8
NH ₂	5/10 um	100Å	300m²/g	4%	2-8
CN	5/10 um	100Å	300m²/g	7%	2-8
Diol	5/10 um	100Å	300m²/g	8%	2-8

Customized Service

Biovanix provide customized service for silica matrix packing materials for liquid chromatography. We also provide technical support for biochemical separation with liquid chromatography method.

Agarose Chromatography Media

Biovanix Agarose media is designed based on Cytive Sepharose series, it offer the high specificity and selectivity for biomolecular separations and purifications. Affinity separation can often remove contaminants difficult to eliminate using other chromatographic procedures. Purifications up to several orders of magnitude can be achieved in a single step.

Ion-exchange Chromatography Media

Product	Dynamic Binding Capacity	Application
DEAE 6 FF	50 mg BSA/mL	Weak anion exchange medium:
DEAE 6 HP	50 mg BSA/mL	High Applicability (FF)
DEAE 6 XL	100 mg BSA/mL	High Resolution (HP)
Q 6 FF	60 mg BSA/mL	Strong anion exchange media:
Q 6 HP	60 mg BSA/mL	High Applicability (FF)
Q 6 XL	160 mg BSA/mL	High Resolution (HP)
CM 6 FF	100 mg lysozyme/mL	Weak cation exchange medium:
CM 6 HP	100 mg lysozyme/mL	High Applicability (FF)
CM 6 XL	120 mg lysozyme/mL	High Resolution (HP)
SP 6 FF	130 m lysozyme/mL	Strong cation exchange medium:
SP 6 HP	130 mg lysozyme/mL	High Applicability (FF)
SP 6 XL	200 mg lysozyme/mL	High Resolution (HP)

Hydrophobic Chromatography Media

Product	Dynamic Binding Capacity	Application
Butyl 4 FF	20 mg BSA/mL	Weak hydrophobic
Butyl 6 HP	30 mg BSA/mL	Suitable for the separation and purifi- cation of aliphatic proteins
Phenyl 6 FF	35 mg BSA/mL	Strong hydrophobicity
Phenyl 6 FF LS	20 mg BSA/mL	Suitable for the separation and purification of aromatic proteins (such as
Phenyl 6 HP	30 mg BSA/mL	monoclonal antibodies)
Octyl 4 FF	22 mg BSA/mL	Medium hydrophobicity
Octyl 6 HP	28 mg BSA/mL	Suitable for purification of proteins with strong lipophilic properties

Affinity Chromatography Media

Product	Dynamic Binding Capacity	Application	
Ni-IDA 6FF	40 mg His/mL	High load capacity Isolation and purification of recombinant histidine labeled	
Ni-IDA 6HP	40 mg His/mL	(His-Tag) proteins	
Ni-NTA 6FF	50 mg His/mL	Low Ni ²⁺ leakage Isolation and purification of recombinant histidine labeled	
Ni-NTA 6HP	50 mg His/mL	(His-Tag) proteins	
Ni-TED 6FF	25 mg His/mL	Mainly used for the separation and purification of histi-	
Ni-TED 6HP	25 mg His/mL	dine labeled (His-Tag) genetic engineering proteins containing EDTA or DTT and other components	
Protein G 4FF	35 mg lgG/mL	Affinity purification of various polyclonal and monoclo- nal antibodies	
Protein A 4FF	50 mg lgG/mL	Alkaline resistance, easy elution Affinity purification of various polyclonal and monoclonal antibodies	
GSH 4FF	10 mg GST/mL	Isolation and purification of glutathione transferase labeled protein (GST fusion protein), glutathione tran ferase and glutathione dependent protein	
Heparin 6FF	1.5 mg AT III/mL	Isolation and purification of AT III, coagulation factor, lipo-	
Heparin 6HP	1.5 mg AT III/mL	protein, lipase and polysaccharide	
Benzamidine 4FF	20 mg Trypsin/mL (High Sub) 10 mg Trypsin/mL(Low Sub)	Isolation and purification of Trypsin, thrombin, urokinase, kallikrein, prekallikrein and other serine proteases	
MMA 6FF	25 mg BSA/mL	Widely used in the separation and purification of proteins, especially the removal of protein A from the monoclonal antibodies that have been shed through the protein A affinity medium, as well as antibody dimers, host proteins, nucleic acids, viruses.	
MMC 6FF	60 mg BSA/mL	Widely used in the separation and purification of pro- teins	

Affinity Chromatography Media

Product	Coupling	Application
Bromohydrin 4FF	5 - 20 mg/mL	
Epoxy 4FF	2 - 10 mg/mL	
NHS 4FF	3 - 20 mg/mL	Covalent fixation of various proteins
EAH 4 FF	/	
ECH 4FF	/	

Ion-exchange Agarose Chromatography Resin

Biovanix ion exchange chromatography (IEC) is a very effective method for the separation and purification of biomolecule. IEX resin is divided into strong anion (Q), weak anion (DEAE), strong cation (SP) and weak cation (CM) exchanger. These products retain the excellent hydrophilicity and large grid structure of natural polysaccharide compounds. They have good compatibility with bioactive macromolecules, have characteristics of high ion exchange capacity.

Strong Cation Media

			,
	SP 6FF	SP 6HP	SP 6XL
Matrix	6% cross-linked Agarose		6% cross-linked Agarose, glucan grafting
Average Particle Size	90μm	34μm	90μm
Changed Group		-CH ₂ CH ₂ CH ₂ SO ₃ -	
Dynamic Binding Capacity	130 mg lysozyme/mL	200 mg lysozyme/mL	
Ionic Capacity	0.20 - 0.26 mmol/mL	0.18 - 0.24 mmol/mL	0.18 - 0.25 mmol/mL
pH Stability, operational	4-13		
pH Stability, CIP	3-14		
Pressure	≤0.3MPa		
Temperature, operational	4-40℃		
Heat-resisting		121℃, 20min	
Max Flow Rate	600 cm/h 130 cm/h 600 cm/h		
Chemical Stability	All common buffer, 1.0m sodium hydroxide, 8.0m urea, 6.0m guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer		
Storage	20% EtOH in0.2M NaAc, 4-30℃		

Strong Anion Media

	T		<u> </u>
	Q 6FF	Q 6HP	Q 6XL
Matrix	6% cross-linked Agarose		6% cross-linked Agarose, glucan grafting
Average Particle Size	90μm 34μm		90μm
Changed Group		-O-CH ₂ CHOHCH ₂ N ⁺ (CH ₃) ₃	
Dynamic Binding Capacity	60 mg BSA/mL	60 mg BSA/mL	160 mg BSA/mL
Ionic Capacity	0.20 - 0.26 mmol/mL	0.18 - 0.24 mmol/mL	0.18 - 0.25 mmol/mL
pH Stability, operational	4-13		
pH Stability, CIP	3-14		
Pressure	≤0.3MPa		
Temperature, operational	4-40℃		
Heat-resisting	121℃, 20min		
Max Flow Rate	600 cm/h 150 cm/h 600 cm/h		
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer		
Storage	0.2M NaAc, 20% EtOH, 4-30℃		

Weak Cation Media

	CM 6FF	СМ 6НР	CM 6XL
Matrix	6% cross-linked Agarose		6% cross-linked Agarose, glucan grafting
Average Particle Size	90µm	34µm	90µm
Changed Group		-O-CH ₂ COO ⁻	
Dynamic Binding Capacity	100 mg lysozyme/mL 100 mg lysozyme/mL 120 mg lysozyme/mL		
Ionic Capacity	0.14 - 0.18 mmol/mL	0.14 - 0.18 mmol/mL	0.10 - 0.18 mmol/mL
pH Stability, operational	4-13		
pH Stability, CIP	3-14		
Pressure	≤0.3MPa		
Temperature, operational	4-40℃		
Heat-resisting	121℃, 20min		
Max Flow Rate	600 cm/h 150 cm/h 600 cm/h		
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochloride, 70% ethanol Avoid Oxidizing agents, anionic detergents (Q/DEAE), cationic detergents (SP/CM)		
Storage	20% EtOH, 4-30℃		

Weak Anion Media

	DEAE 6FF	DEAE 6HP	DEAE 6XL
Matrix	6% cross-linked Agarose		6% cross-linked agarose, glucan grafting
Average Particle Size	90 _µ m	34 _µ m	90 _µ m
Changed Group		$\text{-O-CH}_2\text{CH2-N}^+\text{(C}_2\text{H}_5\text{)}_2\text{H}$	
Dynamic Binding Capacity	50 mg BSA/mL	50 mg BSA/mL	100 mg BSA/mL
Ionic Capacity	0.14 - 0.18 mmol/mL	0.14 - 0.18 mmol/mL	0.22 - 0.30 mmol/mL
pH Stability, opera- tional	4-13		
pH Stability, CIP	3-14		
Pressure	≤0.3MPa		
Temperature, opera- tional	4-40℃		
Heat-resisting	121℃, 20min		
Max Flow Rate	600 cm/h 150 cm/h 600 cm/h		
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochloride, 30% isopropyl alcohol, 70% ethanol Avoid Oxidizing agents, anionic detergents (Q/DEAE), cationic detergents (SP/CM)		
Storage	20% EtOH, 4-30℃		

Hydrophobic Agarose Chromatography Resin

Biovanix hydrophobic chromatography is a very effective method for the separation and purification of biomolecule. They have good compatibility with bioactive macromolecules, have characteristics of high ion exchange capacity.

	Butyl 4FF	Butyl 6HP
Matrix	4% cross-linked Agarose	6% cross-linked Agarose
Average Particle Size	90μm	34 _µ m
Changed Group	-O-CH₂CHOHCH	I ₂ -(CH ₂) ₃ CH ₃
Dynamic Binding Capacity	20 mg BSA/mL Or 8mg lgG/mL	30 mg BSA/mL
Ligand Concentration	40 μmol/mL resin	60 μmol Butyl/mL resin
pH Stability, operational	3-13	
pH Stability, CIP	2-14	
Pressure	≤0.3MPa	
Temperature, operational	4-40℃	
Thermostability	120℃, 30min, pH 7	
Flow Rate	500 cm/h	150 cm/h
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochloride, 30% isopropyl alcohol, 70% ethanol	
Storage	20% EtOH, 4-30℃	

	Octyl 4FF	Octyl 6HP
Matrix	4% cross-linked Agarose	6% cross-linked Agarose
Average Particle Size	90μm	34 _µ m
Changed Group	-O-CH₂CHOHCH	I ₂ -(CH ₂) ₃ CH ₃
Dynamic Binding Capacity	8 mg BSA/mL Or 25mg lgG/mL	30 mg BSA/mL
Ligand Concentration	20 μmol/mL resin	0.14 - 0.18 mmol/mL
pH Stability, operational	3-13	
pH Stability, CIP	2-14	
Pressure	≤0.3MPa	
Temperature, operational	4-40℃	
Thermostability	120℃, 30min, pH 7	
Flow Rate	500 cm/h	150 cm/h
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochlo- ride, 30% isopropyl alcohol, 70% ethanol	
Storage	20% EtOH, 4-30℃	

	Phenyl 6FF HS	Phenyl 6FF LS	Phenyl 6HP
Matrix		6% cross-linked Agarose	
Average Particle Size	90μm	90μm	90μm
Changed Group		-O-CH ₂ CHOHCH ₂ -O-C ₆ H ₅	
Dynamic Binding Capacity	35 mg BSA/ mL Or 25 mg lgG/mL	15 mg BSA/mL Or 16 mg lgG/mL	30 mg BSA/mL
pH Stability, opera- tional	4-13		
pH Stability, CIP	3-14		
Pressure	≤0.3MPa		
Temperature, opera- tional	4-40℃		
Heat-resisting	121℃, 20min		
Max Flow Rate	600 cm/h 600 cm/h 150 cm/h		
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochloride, 30% isopropyl alcohol, 70% ethanol		
Storage	20% EtOH, 4-30℃		

Affinity Agarose Chromatography Resin

Biovanix Ni affinity media are a nickel metal chelating chromatography media with IDA/NTA/TED ion high cross-linked agarose. BV gel Ni Affinity Media have advantages of excellent stability, biocompatibility, solvent compatibility, large capacity, good selectivity, high resolution natural generation and low cost.

	Ni-IDA 6FF	Ni-IDA 6HP
Matrix	6% cross-linked Agarose	6% cross-linked Agarose
Average Particle Size	90μm	34µm
Changed Group	-N(CH₂COC	DH) ₂ Ni ²⁺
Dynamic Binding Capacity	40 mg His/mL	40 mg His/mL
Ligand Concentration	15 μmol/mL resin	30 μmol/mL resin
pH Stability, operational	3-13	
pH Stability, CIP	2-14	
Pressure	≤0.3MPa	
Temperature, operational	4-40℃	
Thermostability	120℃, 30min, pH 7	
Flow Rate	600 cm/h	150 cm/h
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochloride, 30% isopropyl alcohol, 70% ethanol	
Storage	20% EtOH, 4-30℃	

	Ni-NTA 6FF	Ni-NTA 6HP
Matrix	6% cross-linked Agarose	
Average Particle Size	90μm	34µm
Changed Group	-NTA N	li ²⁺
Dynamic Binding Capacity	40 mg His/mL	50 mg His/mL
Ligand Concentration	25 µmol/mL resin	40 μmol/mL resin
pH Stability, operational	3-13	
pH Stability, CIP	2-14	
Pressure	≤0.3MPa	
Temperature, operational	4-40℃	
Thermostability	120℃, 30min, pH 7	
Flow Rate	600 cm/h	150 cm/h
Chemical Stability	All common buffer, 1.0M sodium hydroxide, 8.0M urea, 6.0M guanidine hydrochlo- ride, 30% isopropyl alcohol, 70% ethanol	
Storage	20% EtOH, 4-30℃	

	Ni-TED 6FF	Ni-TED 6HP
Matrix	6% cross-linked Agarose	
Average Particle Size	90μm	34µm
Changed Group	-NTA N	j ²⁺
Dynamic Binding Capacity	25 mg His/mL	25 mg His/mL
Ligand Concentration	90-130 µmol/mL resin	90-120 µmol/mL resin
pH Stability, operational	2-12	
pH Stability, CIP	2-14	
Pressure	≤0.3MPa	
Temperature, operational	4-40℃	
Thermostability	120℃, 30min, pH 7	
Flow Rate	600 cm/h	150 cm/h
Chemical Stability	Aqueous buffer, 0.01M NaOH, 0.01M HCl (1 week); 10 mM EDTA, 5 mM DTT, 5 mM TCEP, 20 mM β-mercaptoethanol, 1 M NaOH, 6 M guanidine hydrochloride (24 hours); 500 mM imidazole, 100 mM EDTA (2 hours); 30% isopropyl alcohol (20 minutes)	
Storage	20% EtOH, 4-30℃	

Application Case

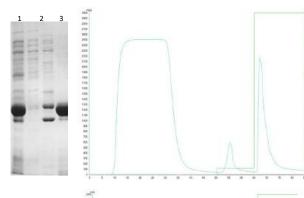
His tag Protein Purification

Column: 1ml

Sample: E. coli cracking supernatant (His tag protein) Equilibrium liquid: 0.02MPB、0.5MNaCl,pH 7.4 Elution: 0.02MPB, 0.5M NaCl, Imidazole, pH 7.4

Flow Rate: 1ml/min

1. Original; 2. Breakthough; 3. Elution(4%B); 4. Elution(100%B)

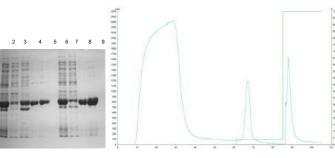


Column: 1ml

Sample: E. coli cracking supernatant (His tag protein)
Equilibrium liquid: 0.02MPB、0.5MNaC1, pH 7.4
Elution: 0.02MPB、0. M NaCl、Imidazole, pH 7.4

Flow Rate: 1ml/min

1. Original; 2. Breakthough; 3. Elution(4%B); 4. Elution (100%B); 5. Elution(100%B); 7. Original; 8. Breakthough; 9. Elution(4%B); 10. Elution(100%B) No imidazole in 1-5. 0.02M imidazole in 7-10.



	Pr A 4FF	Pr G 4FF
	FIAGI	F1 0 411
Substrate	4% cross-linked agarose	
Ligand	rProtein A	rProtein G
Particle Size	90μm (45-165μm)	
Dynamic Binding Capacity	50mg hlgG/ml	35mg hlgG/ml
pH Stability, operational	2-9	
pH Stability, CIP	2-10	
Max. Pressure	0.3MPa	
Temperature, operational	4-40°C	
Flow Rate	500cm/h	500cm/h
Chemical Stability	Commonly used aqueous buffer, 6 M guanidine hydrochloride, 1% SDS, 70% ethanol, 8 M urea	
Storage	4-8 °C, 20% EtOH	

Application Case

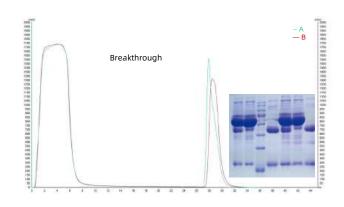
Purification of IgG in human serum

Sample: 5ml human serum with five times

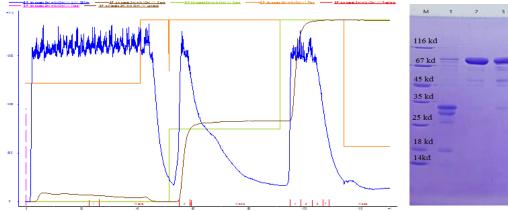
dilution (different buffers)

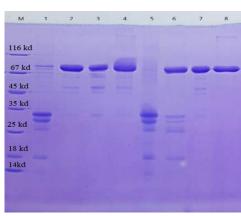
Column: HT01 1.0ml Protein G 4FF Balance: A 0.02 M PB pH7.0; B 0.02M PB, 0. 3M NaCl pH 7.0 Elution: 0.1 M Glycine-HCl pH2.7

Flow Rate: 0.25m/min (sampling), 1ml/min



Protein Purification





	GSH 4FF	Benzamidine 4FF
Substrate	4% cross-linked agarose	
Ligand	Glutathione	Benzamidine
Particle Size	90µm (45-165µm)	
Dynamic Binding Capacity	10mg GST/ml	20 mg trypsin/mL (High Sub) 10 mg trypsin/mL (Low Sub)
pH Stability, operational	3-11	2-8
pH Stability, CIP	3-12	1-9
Max. Pressure	0.3MPa	
Temperature, operational	4-40	°C
Flow Rate	500cm/h	500cm/h
Chemical Stability	Commonly used aqueous buffer, 1 M HAc (pH 4.0), 6 M guanidine hydro- chloride, 8 M urea	Commonly used aqueous buffer, 8 M urea, 6 M guanidine hydrochloride, 30% isopropyl alcohol
Storage	20% EtOH	20% EtOH with 0.05M sodium acetate, pH 4.0

	Heparin 6FF	Heparin 6HP	
Substrate	6% cross-linked agarose		
Ligand	Heparin		
Particle Size	90µm	34µm	
Dynamic Binding Capacity	1.5 mg AT	1.5 mg AT III/mL	
pH Stability, operational	4-12		
pH Stability, CIP	4-13		
Max. Pressure	0.3MPa		
Temperature, operational	4-40℃		
Flow Rate	600cm/h	150cm/h	
Chemical Stability	Commonly used aqueous buffer, 0.1 M NaOH, 4 M NaCl, 6 M guanidine hy-		
Storage	20% EtOH with 0.05M sodium acetate, pH 4.0		

	MMA 6FF	MMC 6FF
Substrate	6% cross-linked agarose	
Ligand	MMA	MMC
Particle Size	90μm (45-165μm)	
Ionic Capacity	0.12-0.16 mmol/mL	
pH Stability, operational	3-12	
pH Stability, CIP	2-14	
Max. Pressure	0.3MPa	
Temperature, operational	4-40℃	
Flow Rate	600cm/h	600cm/h
Chemical Stability	Commonly used aqueous buffer, 2 M sodium chloride, 5% 1-propanol, 30% isopropanol, 70% ethanol, 1 M sodium hydroxide, 1 M acetic acid	
Storage	20% EtOH	

Prosep Agarose Chromatography Media

Biovanix Prosep series is based on the Cytiva Capto series. It is a bioseparation medium developed for near-rigid cross-linked agarose microspheres. Prosep has nearly rigid physical properties, narrower microsphere distribution, more reasonable average particle size, and more protein adsorption space, which reflects higher adsorption capacity, lower chromatographic back pressure, higher operating flow rate and higher resolution in the chromatography process, and is a new generation of high-performance and cost-effective chromatography media. The ion exchange medium based on Prosep matrix has excellent performance and is widely used in laboratory scale preparation of biological macromolecules such as proteins, nucleic acids, peptides and polysaccharides, and large-scale industrial preparation of biopharmaceuticals and bioengineering.

Advantages:

- Faster operating flow rate
- Faster mass transfer
- Higher dynamic load
- Higher resolution
- Higher voltage resistance
- Low operating pressure

Product	Dynamic Binding Capacity	Application
Prosep DEAE	90 mg BSA/mL	
Prosep Q	120 mg BSA/mL	
Prosep SP	120 mg lysozyme/mL	
Prosep DEAE HPR	35 mg BSA/mL	High rigidity
Prosep Q HPR	45 mg BSA/mL	High flow rate High resolution
Prosep CM HPR	75 mg lysozyme/mL	Quick loading
Prosep SP HPR	70 mg lysozyme/mL	
Prosep MMA	20 mg BSA/mL	
Prosep MabPure A LX	60 mg lgG/mL	

	-	
	Prosep DEAE	Prosep DEAE HPR
Matrix	Highly rigid graft agarose	
Average Particle Size	90 _μ m	34μm
Changed Group	-N ⁺ H(C₂I	H ₅) ₂
Dynamic Binding Capacity	90 mg BSA/mL	35 mg His/mL
Ionic Capacity	0.28-0.35mmol/mL	0.16-0.23mmol/mL
pH Stability, operational	2-12	
pH Stability, CIP	2-14	
Pressure	≤0.5MPa	
Temperature, operational	4-40°C	
Thermostability	120℃, 30min, pH 7	
Flow Rate	700 cm/h	150 cm/h
Chemical Stability	Commonly used aqueous buffer, 1 M sodium hydroxide, 8 M urea, 6 M guanidine hydrochloride, 70% ethanol, 30% isopropyl alcohol	
Storage	20% EtOH, 4-30℃	

	Prosep Q	Prosep Q HPR		
Matrix	Highly rigid graft agarose			
Average Particle Size	90μm 40μm			
Changed Group	-N⁺(CH	3)3		
Dynamic Binding Capacity	120 mg BSA/mL	45 mg His/mL		
Ionic Capacity	016-0.22mmol/mL			
pH Stability, operational	2-12			
pH Stability, CIP	2-14			
Pressure	≤0.5MPa			
Temperature, operational	4-40℃			
Thermostability	120℃, 30min, pH 7			
Flow Rate	700 cm/h 300 cm/h			
Chemical Stability	Commonly used aqueous buffer, 1 M sodium hydroxide, 8 M urea, 6 M guanidine hydrochloride, 70% ethanol, 30% isopropyl alcohol			
Storage	20% EtOH, 4-30℃			

	Prosep SP	Prosep SP HPR		
Matrix	Highly rigid graft agarose			
Average Particle Size	90μm	40μm		
Changed Group	-SO ₃			
Dynamic Binding Capacity	120 mg lysozyme/mL	70 mg lysozyme/mL		
Ionic Capacity	0.16-0.20mmol/mL 0.18-0.23mmol/ml			
pH Stability, operational	4-12			
pH Stability, CIP	3-14			
Pressure	≤0.5MPa			
Temperature, operational	4-40°	С		
Thermostability	120℃, 30min, pH 7			
Flow Rate	700 cm/h 300 cm/h			
Chemical Stability	Commonly used aqueous buffer, 1 M sodium hydroxide, 8 M urea, 6 M guanidine hydrochloride, 70% ethanol, 30% isopropyl alcohol			
Storage	20% EtOH with 0.2M NaAc, 4-30℃			

	Prosep CM HPR	
Matrix	Highly rigid graft agarose	
Average Particle Size	40μm	
Changed Group	-O-CH₂COO⁻	
Dynamic Binding Capacity	75 mg lysozyme/mL	
Ionic Capacity	0.16-0.23mmol/mL	
pH Stability, operational	4-13	
pH Stability, CIP	2-14	
Pressure	≤0.5MPa	
Temperature, operational	4-40℃	
Thermostability	120℃, 30min, pH 7	
Flow Rate	300 cm/h	
Chemical Stability	Commonly used aqueous buffer, 1 M sodium hydroxide, 8 M urea, 6 M guanidine hydrochloride, 70% ethanol, 30% isopropyl alcohol	
Storage	20% EtOH, 4-30℃	

	Prosep MMA HPR		
Matrix	Highly rigid graft agarose		
Average Particle Size	40μm		
Changed Group	MMA		
Dynamic Binding Capacity	35 mg His/mL		
Ionic Capacity	0.13-0.17mmol/mL		
pH Stability, operational	3-12		
pH Stability, CIP	2-14		
Pressure	≤0.5MPa		
Temperature, operational	4-40℃		
Thermostability	120℃, 30min, pH 7		
Flow Rate	300 cm/h		
Chemical Stability	Commonly used aqueous buffers.2 M NaCl, 1 M acetic acid, 1 M NaOH,70% ethanol, 5% 1-propanol, 30% isopropanol		
Storage	20% EtOH, 4-30℃		

	Prosep MabPure A LX		
Matrix	Highly rigid graft agarose		
Average Particle Size	40µm		
Changed Group	rProtein A		
Dynamic Binding Capacity			
Ionic Capacity			
pH Stability, operational			
pH Stability, CIP			
Pressure			
Temperature, operational			
Thermostability			
Flow Rate			
Chemical Stability			
Storage	20% EtOH, 4-30℃		

Gel Filtration Chromatography Media

The gel filter medium is a gel filter medium developed on the basis of dextran and agarose microspheres. This series of products not only retains the high resolution characteristics of dextran, but also introduces the high mechanical strength of cross-linked agarose, fast flow rate, reverse pressure, and smaller particle size ensures higher resolution, which is suitable for industrial large-scale protein refining gel filtration separation.

	G-10	G-15	G-25	
Appearance	White powder			
Matrix	cross-linked glucan			
Particle Size	55-165μm	60-180μm	Corase: 180-400; Fine: 34-121 Medium: 77-200;	
			Superfine: 25-77	
Expansion Factor	2 - 3 mL/g	2.5 - 3.5 mL/g	Corase: ≤500; Fine: ≤100 Medium: : ≤300; Superfine: ≤60	
Globulin Separation Range (M _T)	<700	1000-5000		
Glucan Separation Range (M _P)	<700	100-5000		
pH Stability, opera- tional		2-13		
pH Stability, CIP		2-13		
Pressure		≤0.5MPa		
Temperature, opera- tional	4-40℃			
Heat-resisting	121℃,20min			
Chemical Stability	Common aqueous buffer, 0.2 M NaOH, 6 M guanidine hydrochloride, 8 M urea, 20 mM HCl			
Storage	20% EtOH, 4-30℃			

	30 PG	75 PG	200 PG			
Appearance	Opalescent translucent globular particles					
Matrix		cross-linked glucan				
Average Particle Size		34µm				
Globulin Separation Range (M _r)	<10,000 3000-70,000 10,000-600,000					
Glucan Separation Range (M _P)	- 500-30,000 1000-100,000					
Flow Rate	10-50 cm/h					
pH Stability, opera- tional	3-12					
pH Stability, CIP	2-14					
Heat-resisting	121℃, 20min					
Chemical Stability	Commonly used aqueous buffer; 8 M urea; 6 M guanidine hydrochloride; 30% isopropyl alcohol; 30% acetonitrile; 1% SDS					
Storage	20% EtOH with 0.2M NaAc, 4-30℃					

Agarose Magnetic Beads Chromatography Media

Agarose magnetic beads are magnetic separation media composed of high-purity agarose and superparamagnetic particles. They can move directionally under magnetic field and magnetic force, and directly separate target molecules from complex components in one step through the force between ligand and target molecules, which has a wide range of applications in rapid and large-scale protein purification and high-throughput protein screening.

Product	Dynamic Binding Capacity	Application	
Mag DEAE	50 mg BSA/mL		
Mag Q	60 mg BSA/mL		
Mag CM	100 mg lysozyme/mL	High load, high stability	
Mag SP	130 mg lysozyme/mL		

Customized Service

Biovanix provide customized service for agarose and glucan matrix for low pressure liquid chromatography. The development products are totally based on customers' needs and technical requirement.

We also provide pre-packed chromatography column with specific packing materials.

Package Size

	Package
	25ml
	50ml
Small Package	100ml
	200ml
	500ml
	1L
Production Package	10L
	25L

Supermacroporous Polymer Microsphere

In order to address key issues in the purification of viruses and viral particles, Biovanix has always been bold in its exploration of process technology and product development. Its research and production of supermacroporous ion exchange chromatography media have achieved precise control over the pore size of the chromatography media. Compared to conventional chromatography media, it has better performance in terms of load capacity and processing speed and is more conducive to maintaining the structure of viral vectors and viral-like particles.

Advantages

- Large molecules or viral particles can easily enter the pores for binding;
- The load capacity is more than 10 times that of conventional agarose media and twice that of conventional polymer media;
- It can maintain the integrity of the structure of large molecular proteins, obtain-ing high yield and high activity of the target protein;
- After hydrophilic modification of the microsphere surface and the bonding of ion exchange groups, non-specific adsorption is low and the degree of mechaniza- tion is high;
- The molecular mass transfer rate is fast, and better separation can be achieved at higher flow rates.

PSDVB Microsphere

Product	Poly15 SP	Poly15 Q	Poly30 SP	Poly30 Q
Matrix	Monodisperse PS-DVB			
Particle Size	15	um	30	um
Function Group	(-CH2)SO3-	-CH2N+(CH3)3	(-CH2)SO3-	-CH2N+(CH3)3
Ligand Density	0.22 meq/mL	0.24meq/mL	0.15meq/mL	0.18meq/mL
Capacity	80mg Lys/mL	45mg BSA/mL	60mg Lys/mL	30mg BSA/mL
Flow Rate	150~800cm/h 250~1000cm/h			00cm/h
Max. Pressure	8.0MPa 5.0MPa			MPa
pH Stability	2-12			
Chemical Stability	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochloric ac- id,70% ethanol 30% isopropyl alcohol,30% acetoni- trile,1%SDS, 6M guanidine hydrochlo- ride, 8M urea and other commonly used organic solvents; Avoid exposure to strong oxidants.			
Usage Temperature	4~30°C			
Storage	2~30°C, 20% ethanol			

Product	Poly 50M					
Matrix	SP	Q	СМ	DEAE		
Particle Size		PS-DVB				
Function Group			50um			
Pore Size		10	00-150nm			
Ligand Density	0.15meq/mL	0.15meq/mL				
Capacity	> 80mg Lys	>100mg BSA	> 80mg Lys	>90mg BSA		
Flow Rate		300~1200cm/h				
Max. Pressure		3.0MPa				
pH Stability		1-12				
	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydro-					
	chloric acid,70%	ethanol 30% isop	ropyl alcohol,30% acc	etonitrile,1%SDS, 6M		
Chemical Stability	guanidine hydrochloride, 8M urea and other commonly used organic sol- vents;					
	Avoid exposure to strong oxidants.					
Usage Temperature	4~30°C					
Storage	2~30°C, 20% ethanol					

Product		Poly 50G				
Matrix	SP	Q	CM	DEAE		
Function Group		PS-D\	/B			
Particle Size		50ur	n			
Pore Size		150-300)nm			
Ligand Density	0.14meq/mL	0.14meq/mL				
Capacity	>70mg Lys	>90mg BSA	>70mg Lys	> 65mg BSA		
Flow Rate		300~1200	cm/h			
Max. Pressure		2.0MPa				
pH Stability		1-12				
	All commonly used b	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochlo-				
Chemical Stability	ric acid,70% ethanol 3	ric acid,70% ethanol 30% isopropyl alcohol,30% acetonitrile,1%SDS, 6M guanidine				
	hydrochloride, 8M ur	hydrochloride, 8M urea and other com- monly used organic solvents; Avoid expo				
	- sure to strong oxidants.					
Usage Temperature		4~30°C				
Storage	2~30°C, 20% ethanol					

Product	Poly 50V				
Matrix	SP	Q	СМ	DEAE	
Particle Size		PS-D)VB		
Function Group		50u	m		
Pore Size		300-40	00nm		
Ligand Density	0.12meq/mL	0.13meq/mL	0.12meq/mL	0.133meq/mL	
Capacity	>70mg Lys	> 90mg BSA	> 70mg Lys	>65mg BSA	
Flow Rate	300~1200cm/h				
Max. Pressure		1.0M	1Pa		
pH Stability		1-1	2		
	All commonly used	buffers,1M acetic a	cid,1M sodium oxyo	hloride,1M hydro-	
	chloric acid,70% etl	hanol 30% isopropy	l alcohol,30% aceto	onitrile,1%SDS, 6M	
Chemical Stability	guanidine hydrochlo	ride, 8M urea and o	ther commonly use	ed organic solvents;	
	Avoid exposure to strong oxidants.				
Usage Temperature		4~30°C			
Storage		2~30°C, 209	% ethanol		

Product		РМ	50S			
Matrix	SP	Q	СМ	DEAE		
Particle Size		PM	MA			
Function Group		50	um			
Pore Size		100	nm			
Ligand Density	0.18 meq/mL	0.18 meg/mL				
Capacity	115mg Lys	80mg BSA	105mg Lys	80mg BSA		
Flow Rate		50~300cm/h				
Max. Pressure	1.0MPa					
pH Stability		2-12				
	All commonly used b	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochloric ac-				
Chemical Stability	id,70% e	thanol 30% isopropyl a	lcohol,30% acetonitrile	e,1%SDS,		
Chemical Stability	6M guanidine hydrochloride, 8M urea and other commonly used organic solvents; Avoic					
	exposure to strong oxidants.					
Usage Temperature	4~30℃					
Storage		2~30°C, 20	% ethanol			

Product	PM 50M				
Matrix	SP	Q	CM	DEAE	
Particle Size			PMMA		
Function Group			50um		
Pore Size		-	100-150nm		
Ligand Density	0.11meq/mL	0.17m eq/mL	0.16meq/mL	0.15meq/mL	
Capacity	115mg Lys	80mg BSA	105mg Lys	80mg BSA	
Flow Rate		5	0~300cm/h		
Max. Pressure			0.8MPa		
pH Stability			2-12		
	All commonly used	buffers,1M acetic a	cid,1M sodium oxychlo	oride,1M hydrochloric ac-	
Chomical Stability	id,70%	ethanol 30% isopro	pyl alcohol,30% acetor	nitrile,1%SDS,	
Chemical Stability	6M guanidine hydrochloride, 8M urea and other commonly used organic solvents; A				
	exposure to strong oxidants.				
Usage Temperature			4~30°C		
Storage		2~30	C, 20% ethanol		

Product	PM 50G			
Matrix	SP	Q	СМ	DEAE
Particle Size		PMM.	Ą	
Function Group		50un	า	
Pore Size		150-300)nm	
Ligand Density	0.11meq/mL	0.09meq/mL	0.08meq/ mL	0.09meq/mL
Capacity	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA
Flow Rate		50~300c	m/h	
Max. Pressure		0.5MF	^o a	
pH Stability		2-12		
Chemical Stability	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochloric acid,70% ethanol 30% isopropyl alcohol,30% acetonitrile,1%SDS, 6M guanidine hydrochloride, 8M urea and other commonly used organic solvents; Avoid exposure to strong oxidants.			
Usage Temperature	4~30℃			
Storage		2~30°C, 20%	ethanol	

Product		PM	50V		
Matrix	SP	Q	СМ	DEAE	
Particle Size		PM	MA		
Function Group		50	um		
Pore Size		300-4	00nm		
Ligand Density	0.11meq/mL	0.09meq/mL	0.08meq/mL	0.09meq/mL	
Capacity	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA	
Flow Rate		50~300cm/h			
Max. Pressure		0.5MPa			
pH Stability		2-	12		
	-	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochloric			
Chemical Stability	· ·	anol 30% isopropyl			
	6M guanidine hydrochloride, 8M urea and other commonly used organic solve Avoid exposure to strong oxidants.				
Usage Temperature		4~30°C			
Storage		2~30°C, 20)% ethanol		

Product	PM 50G				
Product		PIM 300			
Matrix	SP	Q	CM	DEAE	
Particle Size		PMM	A		
Function Group		50un	า		
Pore Size		150-300)nm		
Ligand Density	0.11meq/mL	0.09meq/mL	0.08meq/ mL	0.09meq/mL	
Capacity	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA	
Flow Rate		50~300cm/h			
Max. Pressure		0.5MF	Pa		
pH Stability		2-12			
	All commonly used b	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochloric			
Chamical Stability	acid,70% eth	nanol 30% isopropyl al	cohol,30% acetonitril	e,1%SDS,	
Chemical Stability	6M guanidine hydrod	hloride, 8M urea and o	other commonly used	l organic solvents;	
	Avoid exposure to strong oxidants.				
Usage Temperature		4~30℃			
Storage		2~30°C, 20%	ethanol	·	

Product	PM 50V				
Matrix	SP	Q	СМ	DEAE	
Particle Size		PM	MA		
Function Group		50ι	ım		
Pore Size		300-4	00nm		
Ligand Density	0.11meq/mL	0.09meq/mL	0.08meq/mL	0.09meq/mL	
Capacity	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA	
Flow Rate	50~300cm/h				
Max. Pressure		0.51	ИР а		
pH Stability		2-	12		
	_	All commonly used buffers,1M acetic acid,1M sodium oxychloride,1M hydrochloric acid,70% ethanol 30% isopropyl alcohol,30% acetonitrile,1%SDS,			
Chemical Stability				used organic solvents;	
	Avoid exposure to strong oxidants.				
Usage Temperature		4~30℃			
Storage		2~30°C, 20	% ethanol		

Instruments & Parts

HPLC Column Packer

Biovanix HPLC Column Packer is designed for packing analysis, semi-preparative and preparative columns, with higher pressure and power, are designed for both analytical and preparative columns with inner diameter 2.0mm~50mm.

Homogenate tanks is suitable for homogenate during the packing process.

Service:

- 1. One year warranty
- 2. Free replacement parts
- 3. Free online training for operation and maintenance
- 4. Recovery of old equipment

Parameters:

	Biovanix HPLC Column Packer
Column ID	2.0/3.0/4.0/4.6/10/20/30/50 mm
Output Pressure	19000 psi
Flow Rate	3.3L/min
Output Power	2hp
Air Cylinder	Double

Hardware:

Standard Parts	Optional Parts		
Operation instruction	Air compressor		
Pneumatic booster pump	Air purification system		
Control panel	Homogenate tanks		
Homogenate tank support	Column connection (ID 10-50mm)		
Stainless steel connections	Empty HPLC column (ID 2.0-50mm)		
	Packing materials		

Control Panel Introduction

1 Pressure gauge 9 SS HPLC column

2 Pressure regulator 10 Solvent tank

3 Liquid inlet: 11 Waste liquid recov-

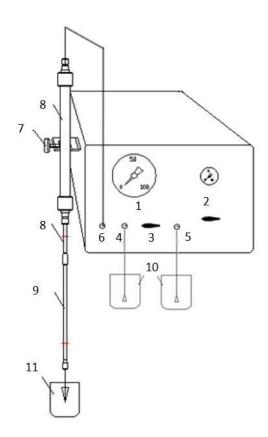
4 Inlet A: ery

5 Inlet B:

6 Liquid outlets:

7 Column support

8 Homogenate tank









High-pressure Precision Plunger Pump

Eldex Optos Injection Pump

Eldex's Optos Series is designing and manufacturing reciprocating piston pumps for a wide variety of applications, while integrating the latest technology and electronics.

With upgrade to Plus Version

- Pressure monitoring with high and low pressure limits
- Integrated low volume pulse damper

Model 1

	Flow Rate (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
316 stainless steel	0.002 - 2.5	6000	3/32	.125	1LM
	0.003 - 5	6000	1/8	.125	1SM
	0.01 - 20	3000	1/4	.125	1HM
	Flow Rate (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
PEEK	0.002 - 2.5	4000	3/32	.125	1LI
	0.003 - 5	4000	1/8	.125	1SI
	0.01 - 20	3000	1/4	.125	1HI

Model 2

	Flow Rate (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
316 stainless	0.003 - 5	6000	3/32	.250	2LM
steel	0.01 - 10	6000	1/8	.250	2SM
	0.02 - 40	1500	1/4	.250	2HM
	Flow Rate (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
PEEK	0.003 - 5	4000	3/32	.250	2LI
PEER	0.01 - 10	4000	1/8	.250	2SI
	0.02 - 40	1500	1/4	.250	2HI

Model 3

	Flow Rate (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
316 stainless	0.01 - 10	3000	3/32	.500	3LM
steel	0.01 - 20	1500	1/8	.500	3SM
	0.04 - 80	750	1/4	.500	ЗНМ
	Flow Rate (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
PEEK	0.01 - 10	3000	3/32	.500	3LI
	0.01 - 20	1500	1/8	.500	3SI
	0.04 - 80	750	1/4	.500	ЗНІ

Optos Plus Model: Minimize Pulsation, Monitor Pressure

Add Plus to your Optos Series pump to integrate a pulse damper to further reduce pulsation and have the ability to monitor pressure and set high and low pressure limits. Plus is available on L and S piston pumps.

	Flow Rate* (mL/min)	Max. Pressure (psi)	Piston Diame- ter (in.)	Piston Stroke (in.)	Model
316 stainless steel	0.002 - 2.5	6000	3/32	.125	1LMP
	0.003 - 5	6000	1/8	.125	1SMP
PEEK	Flow Rate* (mL/min)	Max. Pressure (psi)	Piston Diame- ter (in.)	Piston Stroke (in.)	Model
	0.002 - 2.5	4000	3/32	.125	1LIP
	0.003 - 5	4000	1/8	.125	1SIP







Single-layer Glass Column

- Pressure-resistant borosilicate glass, visualization and stability
- Supporting foot, adjustable level, convenient for users to
- Reasonable price, high cost performance
- Reproducibility, excellent column efficiency and reliable results
- Zero dead volume structural connections



Working Temperature	4-40℃
pH Range	1-14
Chemical Stability	Tolerant to salt, acid, alkali, and a small number of organic solvents alcohols, ketones, phenols.
Column Material	Borosilicate glass
Column Head Material	PTFE
Thread-end Material	PEEK
Seal Ring Material	PTFE/EPDM
Tubing Material	1/16&1/8
Connector Material	PEEK 1/16&1/8

Internal No. Diameter (mm)	Internal			One-side Adjustable Type		Double-side Adjustable Type		
	Length (mm)	Volume (mL)	Bed Height (cm)	Volume (mL)	Bed Height (cm)	Pressure (bar)		
YS16/200	16	200	4-30	2-14.5	0-30	0-14.5	7	
YS16/400	16	400	46-72	22-34.5	17-72	8.5-34.5	7	
YS16/700	16	700	109-136	52-64.5	81-136	38.5-64.5	7	
YS16/1000	16	1000	173-199	82-94.5	144-199	68.5-94.5	7	
YS26/200	26	200	10-73	2-14.5	0-73	0-14.5	7	
YS26/400	26	400	111-174	22-34.5	43-174	8.5-34.5	7	
YS26/700	26	700	263-326	52-64.5	195-326	38.5-64.5	7	
YS26/1000	26	1000	415-479	82-94.5	347-479	68.5-94.5	7	
YS50/200	50	200	19-275	1-14	0-275	0-14	5	
YS50/400	50	400	215-471	11-24	0-471	0-24	5	
YS50/600	50	600	804-1060	41-54	549-1060	28-54	5	
YS50/1000	50	1000	1589-1845	81-94	1334-1845	68-94	5	

BSXK Double-layer Glass Column

BSXK glass columns are made of borosilicate glass. They allow visual inspection of media bed and exhibit excellent chemical resistance. Column packing can be performed using either a packing reservoir or extra column tube attached with a packing connector. QuickLock of the adapter shaft facilitates rapid and easy movement of the adapter, simplifying adjustments of the bed height and cleaning. Adapter plunger gives a uniform flow which maintains the integrity of the packed bed during operations.



Working Temperature	4-40°C
pH Range	1-14
Chemical Stability	Tolerant to salt, acid, alkali, and a small number of organic solvents alcohols, ketones, phenols.
Column Material	Borosilicate glass
Column Head Material	PTFE
Thread-end Material	PEEK
Seal Ring Material	PTFE/EPDM
Tubing Material	1/16&1/8
Connector Material	PEEK 1/16&1/8
Max. Pressure	20 bar (10/16mm l.D.); 10 bar (26mm l.D.); 7 bar (50mm l.D.)

Internal No. Diameter (mm)	Lenath		One-side Adj	iustable Type	Double-side Adjustable Type	
	(mm)	Volume (mL)	Bed Height (cm)	Volume (mL)	Bed Height (cm)	
BSXK10/100	10	100	4-7.5	0-9	0-7	0-8
BSXK10/150	10	150	7.5-12	9-12	4.7-12	5-13
BSXK16/200	16	200	4-30	2-14.5	0-30	0-14.5
BSXK16/400	16	400	46-72	22-34.5	17-72	8.5-34.5
BSXK16/700	16	700	109-136	52-64.5	81-136	38.5-64.5
BSXK16/1000	16	1000	173-199	82-94.5	144-199	68.5-94.5
BSXK26/200	26	200	10-73	2-14.5	0-73	0-14.5
BSXK26/400	26	400	111-174	22-34.5	43-174	8.5-34.5
BSXK26/700	26	700	263-326	54-64.5	195-326	38.5-64.5
BSXK26/1000	26	1000	415-479	82-94.5	347-479	68.5-94.5
BSXK50/200	50	200	19-275	1-14	0-275	0-14
BSXK50/300	50	300	215-471	11-24	0-471	0-24
BSXK50/600	50	600	804-1060	41-54	549-1060	28-54
BSXK50/1000	50	1000	1589-1849	81-94	1334-845	68-94

Single-layer Fixed Glass Column

HT series chromatographic columns have unique flared cylinder design for more even fluid distribution. The columns are equipped with a unique nozzle instead of the sieve plate, which is especially suitable for solid sample loading and dry sample mixing. It effectively prevents the destruction of the column bed caused by high mobile phase line velocity. HT chromatographic column has a large volume of sample loading. It can be pumped to eliminate the blocking of the inlet valve interface caused by high concentration of samples.



HT series chromatography columns are suitable for reverse-phase, ion-exchange, gelpermeation and affinity chromatography. Compared with ordinary open glass columns purification time is shortened 2-10 times with higher purification efficiency and less solvent usage. The column tube is convenient to disassemble and wash, which saves time for the researchers.

No.	Inner diame- ter (mm)	Length (mm)	Max. Pressure (bar)	Silica Resin (40-60um) (g)	Sampling (g)	Flow Rate (mL/min)
HT10/110	10	110	40	Protective c	olumn, on-colum	n injector.
HT-15/310	15	310	40	45	0.45-4.5	5-20
HT-15/460	15	460	40	70	0.7-7.00	5-20
HT-15/920	15	920	40	140	1.4-14.00	5-20
HT26/100	26	100	40	Protective c	olumn, on-colum	n injector.
HT-26/310	26	310	40	130	1.30-13.00	20-70
HT-26/460	26	460	40	200	2.00-20.00	20-70
HT-26/920	26	920	40	400	4.00-40.00	20-70
HT-36/310	36	310	30	240	2.40-24.00	45-135
HT-36/460	36	460	30	350	3.50-35.00	45-135
HT-36/920	36	920	30	700	7.00-70.00	45-135
HT-49/100	49	100	20	Protective c	olumn, on-colum	n injector.
HT-49/310	49	310	20	450	4.50-45.00	80-200
HT-49/460	49	460	20	650	6.50-65.00	80-200
HT-49/920	49	920	20	1300	13.00-130.00	80-200
HT-70/310	70	310	10	880	8.80-88.00	170-250
HT-70/460	70	460	10	1300	13.00-130.00	170-250
HT-70/920	70	920	10	2600	26.00-260.00	170-250
HT-100/310	100	310	10	1900	19.00-190.00	200-250
HT-100/460	100	460	10	2750	27.50-275.00	170-250
HT-100/920	100	920	10	5500	55.00-550.00	200-250
HT-150/300	150	300	5	3180	36.50-365.00	500-800
HT-150/600	150	600	5	6360	55.00-550.00	500-800
HT-150/900	150	900	5	9540	110.00-1100.00	500-800

Low-pressure Glass Chromatography Column

Low-pressure chromatography columns are pressure compressible glass columns designed for hygienic operation and simple, efficient loading, primarily for process development or biopharmaceutical production.



Patent column head sealing technology

The lever-pressing sealing structure was used with high reliability, which prevents the problem that the pneumatic mechanism easy to leak and invalid.

- The expansion structure of pressurizing-down style gasket ring prevents column head departing from bed caused by the pull-up structure.
- Minimized Hold-up Volumes, Easy to clean and change the seal.

Patent column head rotating structure

• The column head rotates by the rotating screw of the column pipe, which is on the upper surface of the flange plate. After rotating in place, the second screw needs to be inserted. Media packing can be done after rotating the column head. It is easy to operate, without carrying out the column head.

Predictable linear scale-up

- Fix condition: Linear flow rate, buffer, packing material, bed height, sample concentration, pH, sample volume, and bed volume ratio.
- Scale-up condition: Column I.D., volume flow rate, sample volume.

Advantages

- Finished tubes, which cost 3-4 times more than standard tubes. This chromatographic column adopts SCHOTT G3.3 medical finished glass column barrel. The end face of this column barrel is smooth, and the inner wall is processed twice, without bubbles and scratches, so that there is no real residue. And high dimensional accuracy, good consistency. And printed with the original factory "SCHOTT" and "DURAN" logo. DWK Life Sciences Co., LTD., the manufacturer of Schott finished barrel, issued a statement.
- The liquid material and screen plate are made of high standard 316L stainless steel. All joints and seals are made of high standard materials. Ensure the use of the column effect. There is no leakage in long-term use.
- The ecolumn is easy to install, complete accessories configuration. Perfect after sale.

Product	Column Inner Di- ameter	Sectional Area (cm²)	Column Height (mm)	Column B (cr	ed Height n) Max	Column Be (L	ed Volume .) Max	Max. Pres- sure (bar)	Net Wight (Kg)
MPC100/500	(mm) 70	38.5	500	0	35	0	1.4	8	14
MPC100/750	70	38.5	950	40	80	1.5	3.1	8	14
MPC100/500	100	78.5	500	0	35	0	2.7	8	18
MPC100/750	100	78.5	750	20	60	1.6	4.7	8	20
MPC100/950	100	78.5	950	40	80	3.1	6.3	8	21
MPC140/500	140	154	500	0	35	0	5.4	6	30
MPC140/750	140	154	750	20	60	3.1	9.2	6	33
MPC140/950	140	154	950	40	80	6.2	12.3	6	35
MPC200/500	200	314	500	0	35	0	11	6	36
MPC200/750	200	314	750	20	60	6.3	18.8	6	39
MPC200/950	200	314	950	40	80	12.6	25.1	6	42
MPC300/500	300	706.5	500	0	35	0	24.7	4	58
MPC300/750	300	706.5	750	20	60	14.1	42.4	4	63
MPC300/950	300	706.5	95	40	80	28.2	56.5	4	67
MPC450/500	450	1560	50	0	35	0	55.6	3	230

Product Details





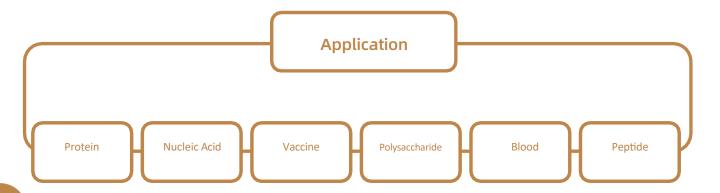
AutoPro Protein Chromatography System

Biovanix AutoPro is a compact, modular protein chromatography system designed for the rapid purification of microgram to gram quantities of proteins, nucleic acids, vaccines, and polysaccharides. It features high performance and precision, utilizing core components from reputable manufacturers. All parts that come into contact with the samples are made of bio-inert materials, ensuring excellent biocompatibility. The CDS system operating system supports a variety of chromatographic techniques, meeting and providing the highest standards of purification automation. The system is flexible and can be upgraded at any time according to your needs, enhancing the automation performance of your products.



Component collector

- Enclosed design to prevent sample contamination.
- Stackable for space-saving storage.
- High operating speed with low vibration and noise, reducing sample loss.
- Unique closed-loop control technology ensures high positioning accuracy.



Equipment Con- figuration	Product Name	Technical Parameter							
		AutoPro25	AutoPro100	AutoPro150					
	AutoPro Infusion Pump	Dual pump system.	Dual pump system, Flow rate range: 0.001-100ml/ min; Pressure range: 0-10MPa (1500psi); Flow accuracy. ±1.5%	Dual pump system, Flow rate range: 0.001-150ml/ min; Pressure range: 0-5MPa (725psi); Flow accuracy. ±1.5%					
		Gradient type: linear, eq	Flow rate repeatability: RSD≤0.5% ual degree, step gradient, gradient rat	io can be modified online					
Standard Configu- ration	Automatic Inlet Valve	Three-position seven-port valve, so	Three-position seven-port valve, software reverse control, support quantitative sampling; Supports the Loa Inject, and Waste functions						
	Fixed Single Wave- length Detector	The dete	LED light source, fixed single wavelength, service life ≥8000 hours; The detection wavelength is 280nm, 260nm or 254nm. The wavelength accuracy is ±1nm, and the wavelength importance is ±0.5nm. Drift :1*10-3AU/Hr; Noise: 4*10-5AU (@254nm, 1S);						
	Temperature Sensor	Reading range: 0-100℃, pre	Reading range: 0-100°C, precision soil ±1%; conductance, pH temperature compensation.						
	Back Pressure Valve	20	0-200psi adjustable, biocompatik	ole					
	In-line Filter		20um titanium alloy filter						
	Dynamic Mixer		2ml mixing chamber						
	Chromato- graphic column clamp	Two sets							
	Starter	Includes pipes, connectors, maintenance tools, instructions, dongles							
	Control System	Control system (including computer, keyboard, mouse, Chinese or English operating software); Can achieve 24 hours uninterrupted operation;							
	pH Detector	Detection range pH0-14, precisio	n ±0.1; Dead volume of flow tank	76ul; Temperature compensation					
	Bubble Sensor Used to monitor sample loading and the formation of bubbles in the system								
	Buffer Inlet Valve	Four channels, including A pump A1-A2, B pump B1-B2; Eleven channels, including A pump A1-A9, B pump B1-B2; Eighteen channels, including A pump A1-A9, B pump B1-B9; L2 fixed dual wavelength, detection range 280nm and 260nm (or 200-600nm optional two fixed							
		wavelengths). DAD402 variable dual wavelength, detection range 280-400nm, full spectrum direct reading, can detect two							
	UV Detector	arbitrary wavelengths at the same time.							
		DAD604 variable four-wavelength, detection range 200-600nm, full spectrum direct reading, can detect four arbitrary wavelengths at the same time.							
Optional Configu- ration		DAD 804 Full wavelength detection, detection of Fantu 200-SOOnm, full spectrum direct reading, can simulta- neously detect four arbitrary wavelengths.							
		ne		pectrum direct reading, can simulta-					
	Outlet Valve	Two channels, 1 la	eously detect four arbitrary wavelengtl orge volume sample collection, 1	pectrum direct reading, can simultans. waste liquid outlet.					
	Outlet Valve	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample	eously detect four arbitrary wavelength orge volume sample collection, 1 for large sample collection, 1 cha collection, with a collection rack as st	oectrum direct reading, can simultans. waste liquid outlet. nnel for waste liquid outlet. andard (96-well plate or centrifuge					
	Component	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle	eously detect four arbitrary wavelength irge volume sample collection, 1 for large sample collection, 1 cha collection, with a collection rack as state it tube of different specifications can b ction and comes standard with two co	waste liquid outlet. Innel for waste liquid outlet. andard (96-well plate or centrifuge e selected). Election racks (96-well plates or cen-					
		Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an	eously detect four arbitrary wavelength orge volume sample collection, 1 for large sample collection, 1 cha collection, with a collection rack as st to tube of different specifications can b	waste liquid outlet. Innel for					
	Component	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an Frac-02P supports 1-50ml sample of differ Frac-02C supports 1-50ml sample colle	eously detect four arbitrary wavelength orge volume sample collection, 1 for large sample collection, 1 cha collection, with a collection rack as stated to tube of different specifications can b ction and comes standard with two co d test tubes of different specifications collection and comes standard with two	waste liquid outlet. Innel for					
	Component Collector	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an Frac-02P supports 1-50ml sample of tubes and tes	eously detect four arbitrary wavelength or large sample collection, 1 for large sample collection, 1 change collection, with a collection rack as stated to the following can be cotton and comes standard with two cold test tubes of different specifications can be collection and comes standard with two collection and test to cent sizes of centrifuge tubes and test to collection, with two collection racks as second collection racks as second collection.	waste liquid outlet. Innel for					
	Component	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an Frac-02P supports 1-50ml sample of differ Frac-02C supports 1-50ml sample of tubes and tes Single-column talve can be connected.	eously detect four arbitrary wavelength arge volume sample collection, 1 for large sample collection, 1 change collection, with a collection rack as stated to the collection of different specifications can be collected and comes standard with two collection and comes standard with two collection and comes standard with two collection and comes standard with two collection, with two collection racks as so stated to different specifications can be collected and the collection of different specifications can be collected as a so stated as a so stated and the collection with two collection racks as so stated as a so different specifications can be collected as a so different specification can be collected as a so di	waste liquid outlet. Innel for					
	Component Collector Column Valve Pressure Moni-	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an Frac-02P supports 1-50ml sample of differ Frac-02C supports 1-50ml sample colle tubes and te Single-colum Three-column valve can be connected.	repersely detect four arbitrary wavelength arge volume sample collection, 1 for large sample collection, 1 characteristics, with a collection rack as stated to the of different specifications can be collection and comes standard with two collection and comes standard with two collection and comes standard with two ent sizes of centrifuge tubes and test to collection, with two collection racks as so stated to three chromatographic column to column supports forward thrust and other column pressure monitoring	waste liquid outlet. minel for waste liquid outlet. andard (96-well plate or centrifuge e selected). llection racks (96-well plates or cencan be selected). o collection racks (96-well plates or ubes). tandard (96-well plates or centrifuge be selected). se, or Bypass. s and Bypass at the same time, and recoil.					
	Component Collector Column Valve	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an Frac-02P supports 1-50ml sample of differ Frac-02C supports 1-50ml sample colle tubes and te Single-colum Three-column valve can be connected.	rige volume sample collection, 1 for large sample collection, 1 for large sample collection, 1 chaic collection, with a collection rack as statube of different specifications can be collection and comes standard with two cold test tubes of different specifications collection and comes standard with two collection and comes standard with two collection and comes standard with two collection, with two collection racks as so statubes of different specifications can must valve supports forward, reversated to three chromatographic column column supports forward thrust and represented the column pressure monitoring tumn and back column pressure mand the column pressure monitoring tumn and back column pressure mand column and column and column pressure mand column and column pressure mand column and column and column pressure mand column and column pressure mand column and column an	waste liquid outlet. Innel for					
	Component Collector Column Valve Pressure Moni-	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an Frac-02P supports 1-50ml sample co differ Frac-02C supports 1-50ml sample co tubes and te Single-colur Three-column valve can be connect each Front colu SP25D, flow rate range 0.001-2	rige volume sample collection, 1 for large sample collection, 1 for large sample collection, 1 characteristics and collection, with a collection rack as statube of different specifications can be collection and comes standard with two collection, with two collection racks as so statubes of different specifications can min valve supports forward, reverse the dothere chromatographic column column supports forward thrust and in the pre-column pressure monitoring umn and back column pressure in 15ml/min, pressure range 0-27.51	waste liquid outlet. Innel for					
	Component Collector Column Valve Pressure Monitoring	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes and frac-02P supports 1-50ml sample of tubes and tes Frac-02C supports 1-50ml sample of tubes and tes Single-colum Three-column valve can be connected to the connected fraction of the column specific	roge volume sample collection, 1 for large sample collection, 1 for large sample collection, 1 collection, with a collection rack as state tube of different specifications can be collection and comes standard with two collection and comes standard with two collection and comes standard with two ent sizes of centrifuge tubes and test to blection, with two collection racks as so st tubes of different specifications can must valve supports forward, reverse ted to three chromatographic column accolumn supports forward thrust and represented to the column pressure monitoring tumn and back column pressure in 15ml/min, pressure range 0-27.58 100ml/min, pressure range 0-10	waste liquid outlet. Innel for					
	Component Collector Column Valve Pressure Monitoring	Two channels, 1 la Nine channels, 8 channels The Frac-01 supports 1-50 sample tube or tes Frac-02 supports 1-50 sample colle trifuge tubes an frac-02P supports 1-50ml sample of differ Frac-02C supports 1-50ml sample of tubes and test tubes and test tubes and test sample college. Frac-02C supports 1-50ml sample of tubes and test sample college. Frac-02C supports 1-50ml sample of tubes and test sample college. Frac-02C supports 1-50ml sample of tubes and test sample college. Single-column valve can be connected as the sample of tubes and test sample of tubes and t	rige volume sample collection, 1 for large sample collection, 1 for large sample collection, 1 characteristics and collection, with a collection rack as statube of different specifications can be collection and comes standard with two collection, with two collection racks as so statubes of different specifications can min valve supports forward, reverse the dothere chromatographic column column supports forward thrust and in the pre-column pressure monitoring umn and back column pressure in 15ml/min, pressure range 0-27.51	waste liquid outlet. Innel for					

Injection Loop

BioVanix injection loop is designed for low-pressure chromatography systems. It can be incorporated into a pressurized packing device for large-volume samples and used with the sampling valve.

Type

- 10mL 2MPa
- 50mL 4MPa
- 150mL 2MPa



Empty HPLC column

- Inner diameter: 2.1mm, 3.0mm, 4.0mm, 4.6mm, 7.8mm, 10mm, 20mm, 21.2mm, 30mm, 50mm
- Length: 25mm, 30mm, 50mm, 100mm, 150mm, 250mm, 300mm, 500mm
- Material: 316 L stainless steel
- OEM is available







PEEK Column

Biovanix PEEK Column use high quality PEEK materials to make the PEEK columns. The frits are using PE materials to eliminate the effects of metal ions to your testing.

Type

• Inner diameter: 2.1mm, 4.6mm

• Length: 25mm, 30mm, 50mm, 100mm, 150mm

Material: PEEKOEM is available





In-filter for HPLC System

The in-filters for the HPLC system is based on the HPLC systems. We provide appearance customization based on customers' requirements.

Type:





Chromatography System

- ★ Dual plunger series mode, floating plunger design.
- ★ Advanced pump drive system, higher precision, better stability.
- ★ Electronic pulse compensation technology, multi-point flow correction, ensure accuracy, the range of flow velocity is more accurate, more stable operation and reliable performance, cost-effective
- ★ Open computer control communication protocol, easy third-party software control.



Character

- New touch screen design and humanized interface design.
- Multi-point flow correction.
- O Firmware program updated online.
- O Power-off protection.
- O LAN connection, stable data transfer.
- Alarm in time and according to set procedures, automatic pump stop.

(3)

Smart Technology

- Time-programmed human-machine communication function;
- Status detection, fault warning, online help.
- O Network control to judge failure and provide online solutions.





BV10 HPLC System

Isocratic System		Gradient System		
high-pressure pump, 10ml pump head	1set	high-pressure pump, 10ml pump head	2 set	
Analysis variable dual wavelength UV/VIS detector	1 set	Analysis variable dual wavelength UV/VIS detector	1 set	
Flow cell 10ml	1 set	Flow cell 10ml	1 set	
Manual injection valve 7725i	1 set	Manual injection valve 7725i	1 set	
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set	
Solvent tank	1 set	Solvent tank	1set	
Tool kits	1 set	Tool kits	1 set	

Optional:

Oscillometric refractive detector (Knauer/Shimadzu, software with digital-to-analogue converter)

Evaporative light photodetector (Unimicro, software requires additional digital to analogue converter)

Fluorescence detector (Shimadzu, software requires additional analogue-to-digital converter)

Autosampler (optional Dutch Spark)

C18 5um 4.6-250mm HPLC column

Hardware:

Analytical High Pressure Seals

Analytical Low Pressure Seal Ring

Double pump head analyzing finished plunger 3.175×42

Check valve (Switzerland)

Detector deuterium lamp

BV50 HPLC System

2.50 20 3/5/6						
Isocratic System		Gradient System				
high-pressure pump, 50ml pump head	1set	high-pressure pump, 50ml pump head	2 set			
Analysis variable dual wavelength UV/VIS detector	1 set	Analysis variable dual wavelength UV/VIS detector	1 set			
Flow cell 50ml	1 set	Flow cell 50ml	1 set			
Manual injection valve 7725i	1 set	Manual injection valve 7725i	1 set			
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set			
Solvent tank	1 set	Solvent tank	1set			
Tool kits	1 set	Tool kits	1 set			

Options:

Oscillometric refractive detector (Knauer/Shimadzu, software with digital-to-analogue converter) Injection loop (1ml/2ml/5ml/10ml)

10-250mm HPLC column (including analytical flow cell, backpressure tube)

20-250mm HPLC column

30-250mm HPLC column

Hardware:

Seal ring 6.35

Plunger 6.35 x 43

Low pressure seal 6.35

Detector deuterium lamp

BV100 HPLC System						
Isocratic System		Gradient System				
high-pressure pump, 100ml pump head	1 set	high-pressure pump, 100ml pump head	2 set			
Preparative variable dual wavelength UV/ VIS detector	1 set	Preparative variable dual wavelength UV/VIS detector	1 set			
Flow cell 100ml	1 set	Flow cell 100ml	1 set			
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set			
Tool kits	1 set	Dynamic mixer	1set			
		Tool kits	1set			

Optional:

Injector pump: High-pressure pump 100ml / High-pressure pump 50ml

Preparation manual injection valve

Injection loop (1ml/2ml/5ml/10ml/20ml)

20-250mm HPLC column

30-250mm HPLC column

50-250mm HPLC column

Hardware:

Seal ring 6.35

Plunger 6.35 x 43

Low pressure seal 6.35

Detector deuterium lamp

BV200 HPLC System

-				
Isocratic System		Gradient System		
high-pressure pump, 200ml pump head	1 set	high-pressure pump, 200ml pump head	2 set	
Preparative variable dual wavelength UV/ VIS detector	1 set	Preparative variable dual wavelength UV/VIS detector	1 set	
Flow cell 200ml	1 set	Flow cell 200ml	1 set	
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set	
Tool kits	1 set	Dynamic mixer	1set	
		Tool kits	1set	

Optional:

Injector pump: High-pressure pump 200ml / High-pressure pump 100ml / High-pressure pump 50ml

Preparation manual injection valve

Injection loop (1ml/2ml/5ml/10ml/20ml)

20-250mm HPLC column

30-250mm HPLC column

50-250mm HPLC column

DAC-50 System

DAC-80 System

Hardware:

High pressure seal / Low pressure seal for 200mL pump

200ml one-way valve

Detector deuterium lamp

BV500 HPLC System

Isocratic System		Gradient System		
high-pressure pump, 500ml pump head	1 set	high-pressure pump, 500ml pump head	2 set	
Preparative variable dual wavelength UV/ VIS detector	1 set	Preparative variable dual wavelength UV/VIS detector	1 set	
Flow cell 500ml	1 set	Flow cell 500ml	1 set	
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set	
Tool kits	1 set	Dynamic mixer	1set	
		Tool kits	1set	

Optional:

Injector pump: High-pressure pump 500ml / High-pressure pump 200ml / High-pressure pump 100ml

Preparation manual injection valve

Injection loop (1ml/2ml/5ml/10ml/20ml)

DAC-100 System

Hardware:

High pressure seal / Low pressure seal for 500mL pump

500ml one-way valve

Detector deuterium lamp

BV1000 HPLC System

Isocratic System		Gradient System		
high-pressure pump, 1000ml pump head	1 set	high-pressure pump, 1000ml pump head	3 set	
Preparative variable dual wavelength UV/ VIS detector	1 set	Preparative variable dual wavelength UV/VIS detector	1 set	
Flow cell 1000ml	1 set	Flow cell 1000ml	1 set	
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set	
Three-way ball valve, 6mm I.D. (sample	1 set	Dynamic mixer	1set	
Tool kits	1 set	Tool kits	1set	

Optional:

Injector pump: High-pressure pump 1000ml / High-pressure pump 500ml / High-pressure pump 200ml Preparation manual injection valve

DAC-100 System

Hardware:

High pressure seal / Low pressure seal for 1000mL pumps

1000ml one-way valve

Detector deuterium lamp

BV3000 HPLC System

Isocratic System		Gradient System		
high-pressure pump, 3000ml pump head	1 set	high-pressure pump, 3000ml pump head	3 set	
Preparative variable dual wavelength UV/ VIS detector	1 set	Preparative variable dual wavelength UV/VIS detector	1 set	
Flow cell 3000ml	1 set	Flow cell 3000ml	1 set	
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set	
Tool kits	1 set	Static Mixer	1set	
		Tool kits	1set	

Optional:

Injector pump: High-pressure pump 3000ml / High-pressure pump 1000ml / High-pressure pump

Preparation manual injection valve

DAC-200 System

DAC-300 System

Hardware:

High pressure seal / Low pressure seal for 3000mL pumps

3000ml one-way valve

Detector deuterium lamp

Core Components







10-50ml

Pump





Туре	PUP0010	PUP0010-C	PUP0010-PEEK	PUP0010-PTFE
Pump Material	Stainless Steel 316L	Hastelloy C	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	1/8"	1/8"	1/8"	1/8"
Outlet con- nector	1/16"	1/16"	1/16"	1/16"
Increment	0.001ml / min	0.001ml / min	0.001ml / min	0.001ml / min
Flow rate range	(0 ~ 9.999)mL/min	(0 ~ 9.999)mL/min	(0 ~ 9.999)mL/min	(0 ~ 9.999)mL/min
Max. Pressure	42Mpa	42Mpa	20Mpa	4Мра
Pulsation	0.5%, at 10Mpa, 1ml/min	0.5%,at 10Mpa , 1ml/min	0.5%, at 10Mpa, 1ml/min	0.5%, at 10Mpa, 1ml/min
Accuracy	±0.15%	±0.15%	±0.5%	±0.5%
Precision (RSD)	0.1%	0.1%	0.1%	0.1%
Control	RS232 or LAN	RS232 or LAN	RS232 or LAN	RS232 or LAN
Display	5.0-inch Touch screen	5.0-inch Touch screen	5.0-inch Touch screen	5.0-inch Touch screen
Power	75W	75W	75W	75W
Dimension (L*W*H)	368*260*140mm	368*260*140mm	368*260*140mm	368*260*140mm
Net Weight	6.9kg	6.9kg	6.9kg	6.9kg





Туре	PUP0050	PUP0050-C	PUP0050-PEEK	PUP0050-PTFE
Pump Material	Stainless Steel 316L	Hastelloy C	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	1/8"	1/8"	1/8"	1/8"
Outlet con- nector	1/16"	1/16"	1/16"	1/16"
Increment	0.001ml / min	0.001ml / min	0.001ml / min	0.001ml / min
Flow rate range	(0 ~ 49.999)mL/min	(0 ~ 49.999)mL/min	(0 ~ 49.999)mL/min	(0 ~ 49.999)mL/min
Max. Pressure	30Мра	30Мра	15Mpa	4Mpa
Pulsation	0.5%, at 10Mpa	0.5%, at 10Mpa	0.5%, at 10Mpa	0.5%, at 10Mpa
Accuracy	±0.15%	±0.15%	±0.5%	±0.5%
Precision (RSD)	0.1%	0.1%	0.5%	0.5%
Control	RS232 or LAN	RS232 or LAN	RS232 or LAN	RS232 or LAN
Display	5.0-inch Touch screen	5.0-inch Touch screen	5.0-inch Touch screen	5.0-inch Touch screen
Power	150W	150W	150W	150W
Dimension (L*W*H)	368*260*140mm	368*260*140mm	368*260*140mm	368*260*140mm
Net Weight	6.9kg	6.9kg	6.9kg	6.9kg

100-3000ml

Pump



100mL



200mL



500mL



1000mL



3000mL





Туре	PUP0100	PUP0100-PEEK	PUP0100-PTFE
Pump Material	Stainless Steel 316L	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	4mm	4mm	4.76mm
Outlet connector	1/16"	1/16"	1/8"
Increment	0.01ml/min	0.01ml/min	0.01ml/min
Flow rate range	(0 ~ 99.99)mL/min	(0 ~ 99.99)mL/min	(0.01 ~ 100)mL/min
Max. Pressure	25Mpa	10Mpa	4Mpa
Pulsation	1%	1%	1%
Accuracy	±0.5%	±0.5%	±0.5%
Precision (RSD)	0.2%	0.5%	0.5%
Control	RS232 or LAN	RS232 or LAN	RS-232/485/LAN inter- face, 3 communication interfaces, 4 communica- tion protocols, can be switched
Display	5.0-inch Touch screen	5.0-inch Touch screen	LCD 2×8 screen
Power	150W	150W	150W
Dimension (L*W*H)	368*260*140mm	368*260*140mm	180*140*260mm
Net Weight	8.5kg	8.5kg	3.2kg





Туре	PUP0200	PUP0200-PEEK	PUP0200-PTFE
Pump Material	Stainless Steel 316L	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	4mm	4mm	4.76mm
Outlet connector	1/16"	1/16"	1/8"
Increment	0.01ml / min	0.01ml/min	0.01ml/min
Flow rate range	(0 ~ 199.99)mL/min	(0 ~ 199.99)mL/min	(0.01 ~ 200)mL/min
Max. Pressure	20Mpa	10Мра	4Mpa
Pulsation	1%	1%	1%
Accuracy	±0.5%	±0.5%	±0.5%
Precision (RSD)	0.2%	0.5%	0.5%
Control	RS232 or LAN	RS232 or LAN	RS-232/485/LAN inter- face, 3 communication interfaces, 4 communica- tion protocols, can be switched
Display	5.0-inch Touch screen	5.0-inch Touch screen	LCD 2×8 screen
Power	150W	150W	150W
Dimension (L*W*H)	368*260*140mm	368*260*140mm	180*140*260mm
Net Weight	8.5kg	8.5kg	3.2kg







Туре	PUP0500	PUP1000	PUP3000
Pump Material	Stainless Steel 316L	Stainless Steel 316L	Stainless Steel 316L
Mode	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	1/4"	10mm	10mm
Outlet connector	1/8"	1/8"	6mm
Increment	0.01ml/min	0.01ml/min	0.1ml/min
Flow rate range	(0 ~ 499.99)mL/min	(0 ~ 999.99)mL/min	(0 ~ 2999.9)mL/min
Max. Pressure	15Mpa	15Mpa	10Мра
Accuracy	±0.5%	±0.5%	±1%
Precision (RSD)	0.3%	0.3%	0.3%
Control	RS232 or LAN	RS232 or LAN	RS232 or LAN
Display	5.6-inch Touch screen	5.6-inch Touch screen	5.6-inch Touch screen
Power	750W	1000W	1500W
Dimension (L*W*H)	488*380*215mm	488*380*215mm	610*460*275mm
Net Weight	27.2kg	27.2kg	73kg

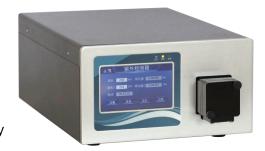
Variable Dual Wavelength UV/VIS Detector

PUD dual wavelength UV/VIS detectors are an essential part of a high performance liquid phase purification system. The detector is digitized for data processing and control, reducing baseline noise and drift to a new limit. The digital output function allows the detector to be connected directly to a computer via a serial port without the need for a data acquisition unit.

The detector system uses different flow cell units for different flow rates. It is possible to detect the flow directly without diverting the flow.

Features

- O Deuterium lamp with stable signal and high energy output.
- Flow cell selection according to different flow rates, different sizes of flow cells that can be directly detected
- Built-in digital signal processing and control system
- Integrated power supply, make the power supply more stable, suitable for explosion-proof use
- Latest ARM system program control, higher accuracy



	I	1	1	
Туре	PUD0010	PUD0100 / PUD0200	PUD0500 / PUD1000	PUD3000
Flow Cell	Analysis flow cell, SST or PEEK 10mm optical range	Preparative flow ce	lls, variable optical ran	ge in SST or PEEK
Connector	1/16	1/16 / 1/8	1/8	6mm
Wavelength Range & Light Source		190-400nm deւ 400-700nm tu	•	
Bandwidth		8nı	n	
Wavelength Accuracy	±0.75nm ±1nm		n	
Wavelength Repeatability	0.2nm 0.3nm			
Baseline Noise (Static)		1*10-	5 AU	
Baseline Drift (Static)	1*10-4 AU/h	1*10-4 AU/h	1*10-4 AU/h	1*10-4 AU/h
Detection Range		(0~5)) AU	
Min detection limit	≤4*10 ⁻⁹ g/mL	≤4*10 ⁻⁸ g/mL	≤4*10 ⁻⁷ g/mL	≤4*10 ⁻⁵ g/mL
Control Mode	RS232 or LAN			
Display	5.0-inch touch screen			
Size	368*260*140(LWH)			
Wattage	75W			
Weight	6.9kg			

Optical fiber detector and optical fiber flow cells are also available.

Optical fiber detector: 190 - 700 nm, variable dual wavelength UV/VIS detector with fiber optic



	Optical Fiber Detector	Optical Fiber Flow Cells
PUD0010	190 - 700 nm optical fiber detector	10 mm path length, 1/16", 10 μl volume stainless steel
PUD0050	190 - 700 nm optical fiber detector	3 mm path length, 1/16", 2 μl volume
PUD0100	190 - 700 nm optical fiber detector	3 mm path length, 1/16", 2 μl volume
PUD0200	190 - 700 nm optical fiber detector	3 mm path length, 1/16", 2 μl volume
PUD0500	190 - 700 nm optical fiber detector	3 mm path length, 1/8", 1.9 μl volume
PUD1000	190 - 700 nm optical fiber detector	3 mm path length, 1/8", 1.9 μl volume
PUD3000	190 - 700 nm optical fiber detector	2 mm path length, 1/16", 6.28 μl volume

Distillate Collector

Туре	FC200 Distillate Collector
Flow Ranges	0-3000 ml/min
	8 channels
Sample Channel	(1 for waste liquid, 7 for collection)
Collection Method	Time/Peak/Slope
Size (LWH)	488*380*215mm
Control Mode	RS232 or LAN
Power	75W
Weight	10Kg

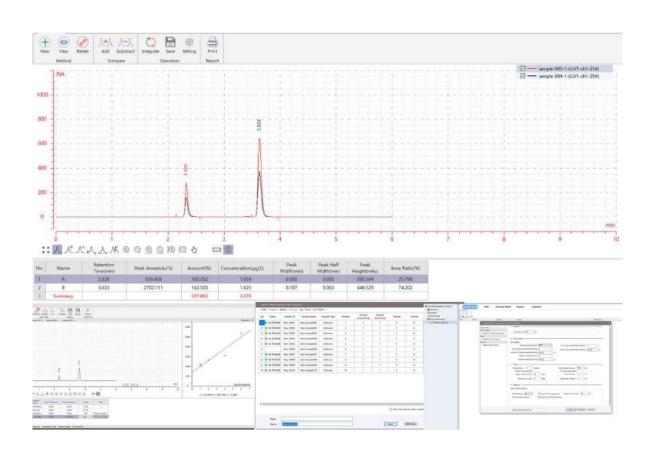


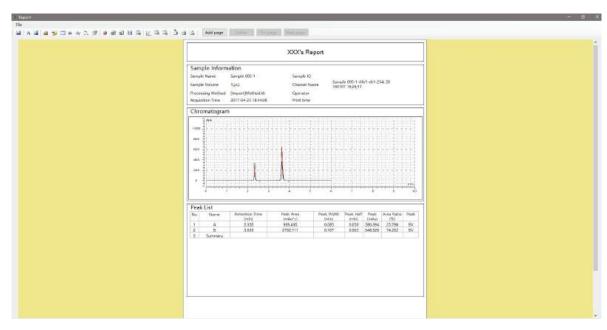
Type	FC100 Distillate Collector
Flow Ranges	0.001-200 ml/min
Collection Mode	Automatic/Semi-Automatic
Collection	Time/Volume/Slope/Peak
Condition	
Sample Volume	120 positions (Φ15x150mm, 15mL glass test tube)
(1 as standard)	88 position (Ф17х120mm, 15mL centrifuge tube)
(Tas standard)	42 bits (Φ28x115mm, 50mL centrifuge tube)
Control Mode	RS232 or LAN
Size (LWH)	260*240*350 mm (W*H*D)
Power	150W
Weight	7.6kg



LabChrom Chromatography Software

LabChrom is a chromatographic data analysis software based on the latest architecture and supports database management. Powerful, advanced performance, high stability, integrated instrument control and maintenance, method editing, data analysis, sample management, report editing, user rights management, audit tracking, digital signature, database and other functions. In full compliance with cGMP, FDA 21 CFR Part 11 certification specifications.





Dynamic Axial Compression Column System

Dynamic axial compression column (DAC) system, is the most mature area of preparative chromatography using the technology of packing column. DAC column maintain their own pressure, discharge packing materials automatically, has the function of high-performance liquid chromatography and column packing column machine. Using DAC system can completely satisfy the continuity of the column bed, uniformity, stability and tightness requirements, eliminate the influence of the column bed collapse. DAC system is widely used in industrial purification process, like peptides purification, natural chemical purification.

- Manufacture with independent design team to meet your different equipment requirements.
- Liquid chromatography resins manufacture. Multiple liquid chromatography resins for different applications.
- Complete technical solution for biochemical isolation and purification.
- Best after-sale service. Installation, training, and spare parts provided.
- Support equipment and complete solution are available.

Advantages:

- Using truss grinding in the column tube, increase the service life of the high-pressure sealing ring.
- High-quality screen plate, provide the certificate.
- Large preparative column sieve plate is convenient for loading and unloading with good sealing performance forced distribution.
- The hydraulic cylinder is designed and manufactured by first-class manufacturers with quality guarantee.
- Multiple choices for the material contact with the fluid: 316 Stainless Steel/ PTFE / PEEK.



ID 50/650

Column Diameter50mmColumn Length650mmWork Pressure10MPa

Liquid Contact Material 316L/PTFE

Sieve 316L\3um

Sealing Ring 316L (Japan)

Working Temperature 5-60 ℃

Size 500*500*1825mm

Distribution Form Forced Distribution



ID 80/650

Column Diameter 80mm

Column Length 650mm

Work Pressure 10MPa

Liquid Contact Material 316L/PTFE

Sieve 316L\3um

Sealing Ring 316L (Japan)

Working Temperature 5-60 ℃

Size 500*500*1825mm

Distribution Form Forced Distribution



ID 100/650

Column Diameter 100mm
Column Length 650mm
Work Pressure 10MPa

Liquid Contact Material 316L/PTFE

Sieve 316L\3um

Sealing Ring 316L (Japan)

Working Temperature 5-60 ℃

Size 500*500*1825mm

Distribution Form Forced Distribution



ID 150/650

Column Diameter150mmColumn Length650mmWork Pressure10MPa

Liquid Contact Material 316L/PTFE
Sieve 316L\3um

Sealing Ring 316L (Japan)

Working Temperature 5-60 ℃

Size 610*680*2400mm

Distribution Form Forced Distribution



ID 200/650

Column Diameter200mmColumn Length650mmWork Pressure10MPaLiquid Contact Material316L/PTFE

Sieve 316L\3um

Sealing Ring 316L (Japan)

Working Temperature 5-60 ℃

Size 710*830*2500mm

Distribution Form Forced Distribution



ID 300/650

Column Diameter300mmColumn Length650mmWork Pressure10MPa

Liquid Contact Material 316L/PTFE

Sieve 316L\3um

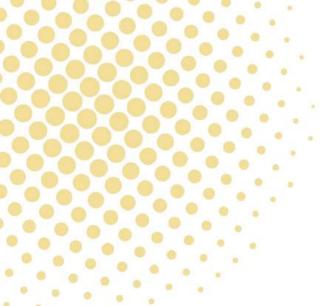
Sealing Ring 316L (Japan)

Working Temperature 5-60 ℃

Size 880*924*2770mm

Distribution Form Forced Distribution













Biovanix Technology Co., Ltd

Add: 5th Floor, 13th Shibawan Road, Binhu District, Wuxi, Jiangsu, 214064

Tel: +86 18816200534

Email: sales@biovanix.com Whatsapp: +1 (281) 650-2769

