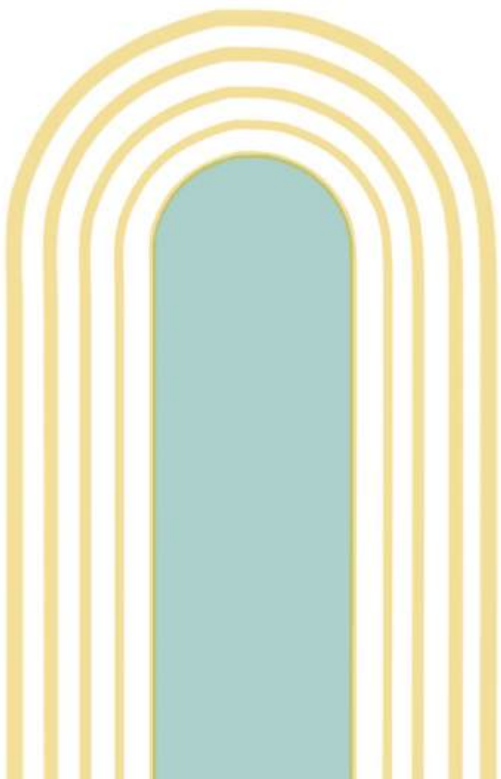
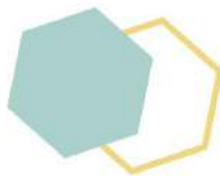
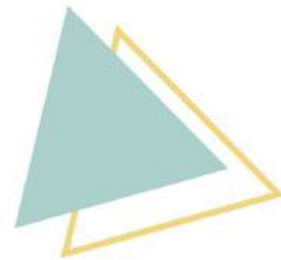
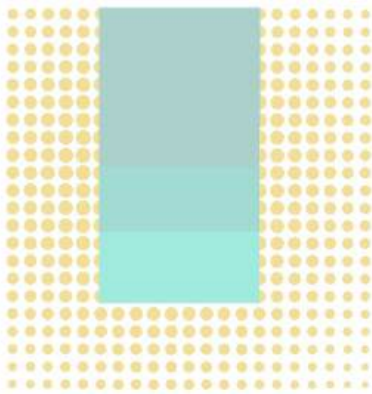




BIOVANIX

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.
3. **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.
5. **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

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 Media
39	PSDVB/PMMA Polymer Microsphere

Instruments & Hardware

41	HPLC Column Packer
43	High-pressure Precision Plunger Pump
45	Glass Chromatography Column
48	Chromatography Hardware
49	Chromatography System
63	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

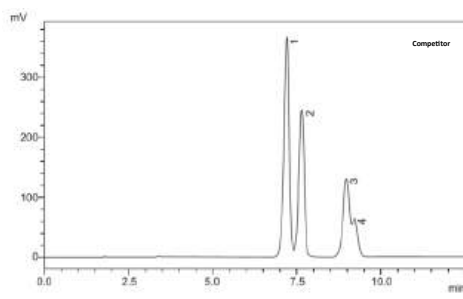
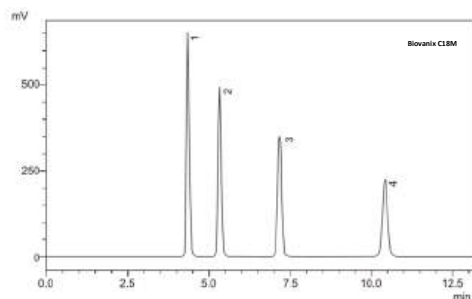
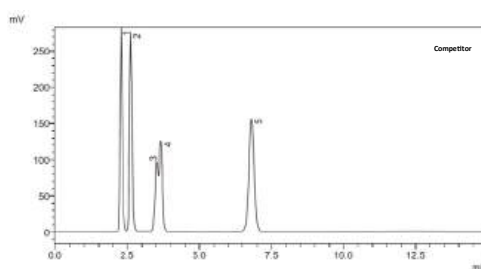
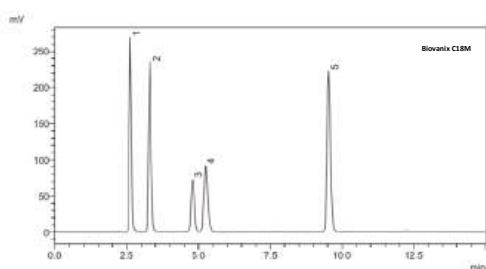
Products	Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
C18	3/5/10 um	100Å	330m ² /g	16%	2-8
C18H	5/10 um	100Å	330m ² /g	18%	2-8
C18 AQ	5/10 um	100Å	330m ² /g	13%	2-8
C8	3/5/8/10 um	100Å	330m ² /g	12%	2-8
C4-300	5/10um	300Å	100m ² /g	3%	2-8
C8-300	5/10um	300Å	100m ² /g	5%	2-8
C18-300	5/10 um	300Å	100m ² /g	8%	2-8
Phenyl	3/5/10 um	100Å	330m ² /g	8%	2-8
SiO ₂	3/5/10 um	100/120Å	330m ² /g	-	2-8
SiO ₂	5 um	80/200Å	330m ² /g	-	2-8
NH ₂	3/5/10 um	100Å	330m ² /g	4%	2-8
CN	3/5/10 um	100Å	330m ² /g	7%	2-8
Diol	5/10 um	100Å	330m ² /g	8%	2-8

C18 Column

Parameters

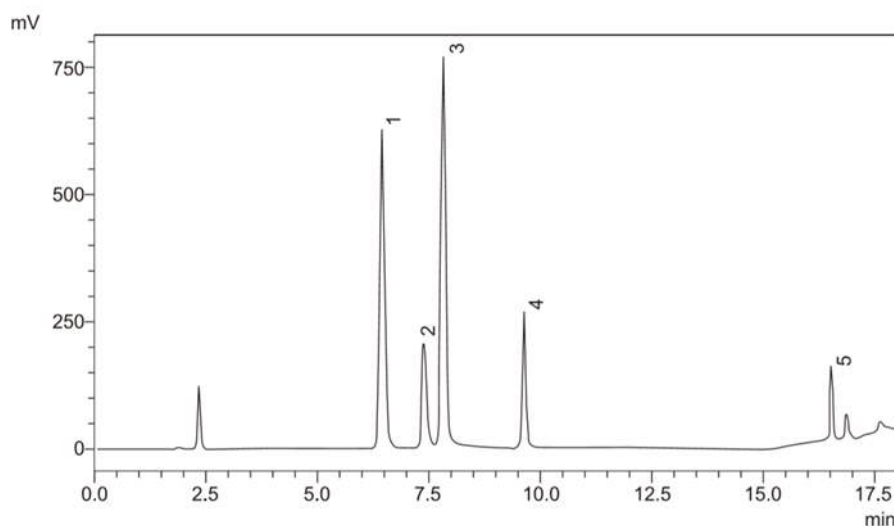
Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10µm	100Å	330m ² /g	16%	2-8

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



Water-soluble multivitamin

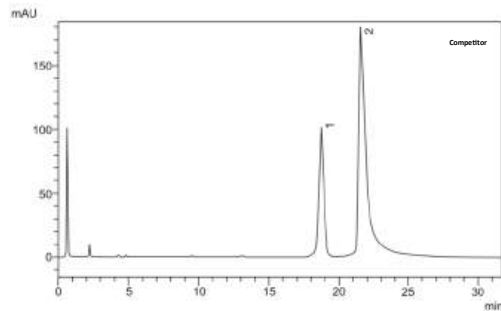
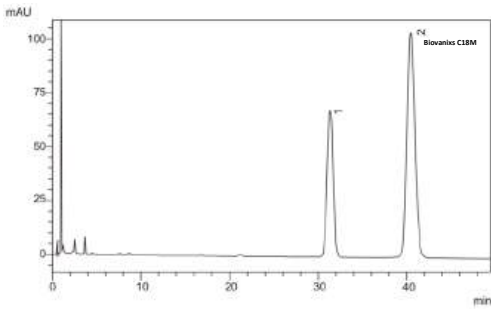
Column: C18 5µm
 4.6×150mm
Mobile Phase:
 phosphoric acid buffer / acetonitrile
Flow Rate: 1ml/min
Wavelength: 210nm
Temp.: 25°C
 1 Pyridoxine;
 2 VB1;
 3 Nicotinamide;
 4 Folic acid;
 5 VB2

C18H Column

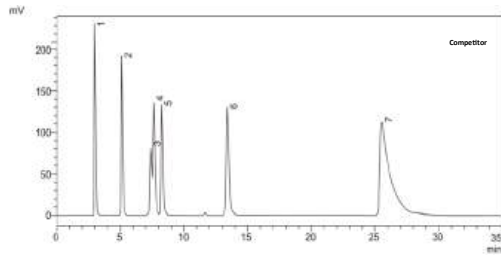
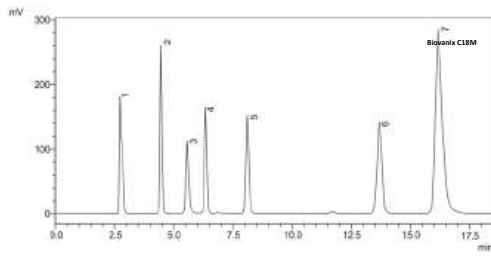
Parameters

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

Application



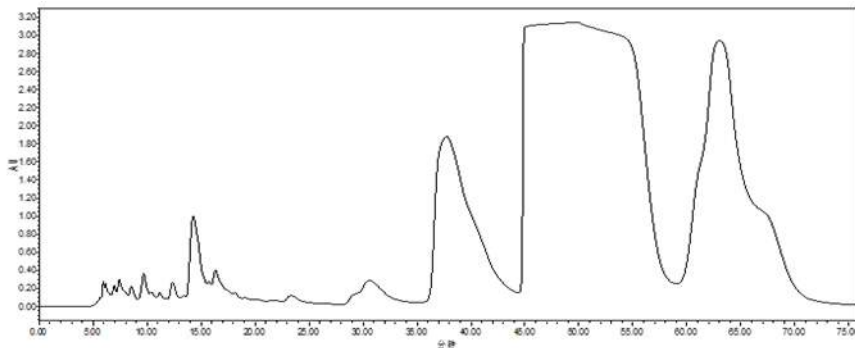
Ibuprofen/Benzene ketone
Column: C18H 5µm 4.6×150mm
 Competitor 5µm 4.6×150mm
Mobile Phase:
 phosphoric acid buffer / acetonitrile
Flow Rate: 2ml/min
Wavelength: 214nm
Temp.: 30°C



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

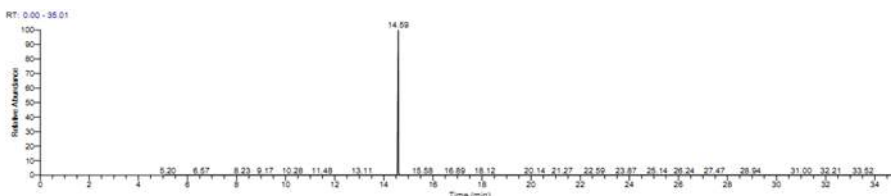
- 1 Uracil; 2 Butyl p-hydroxybenzoate;
- 3 Propranolol;
- 4 Di-propyl ortho-phthalate;
- 5 Naphthalene; 6 Acenaphthene;
- 7 Amitriptyline

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%



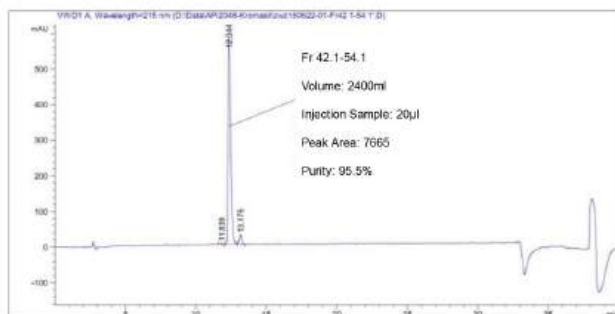
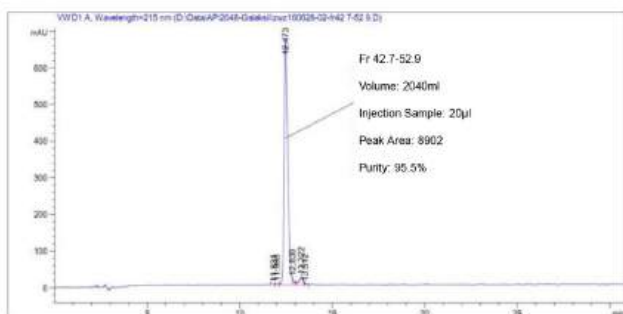
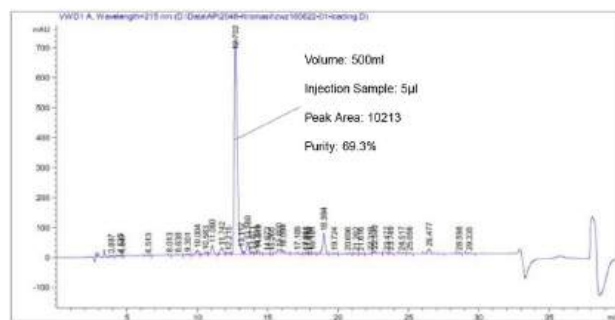
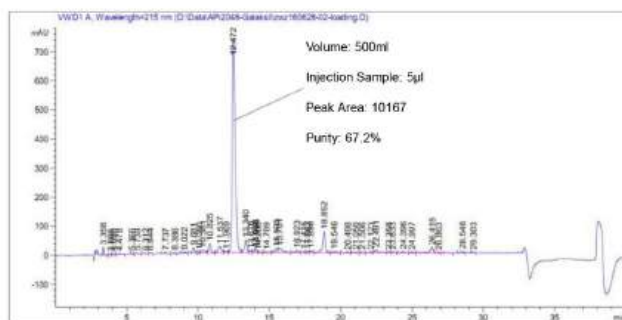
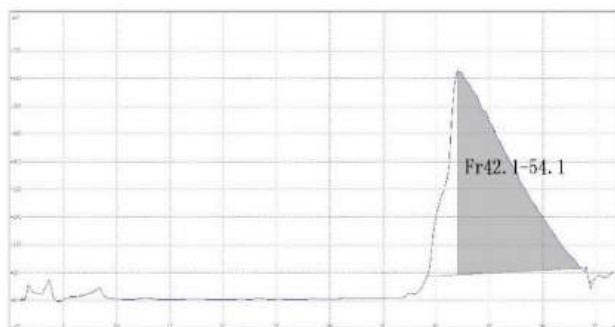
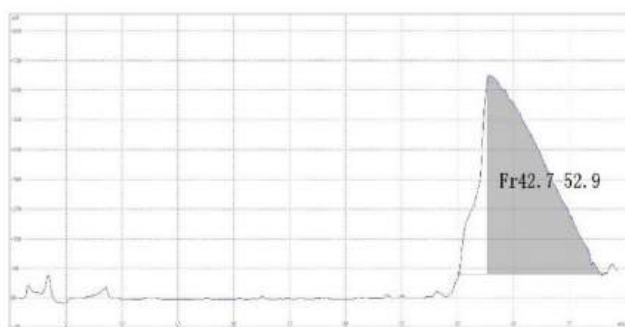
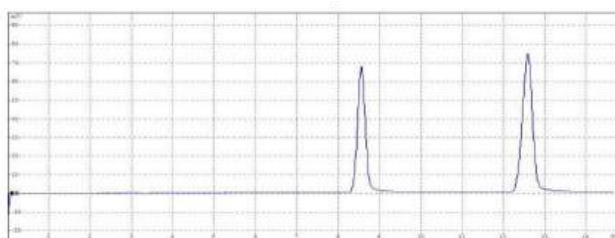
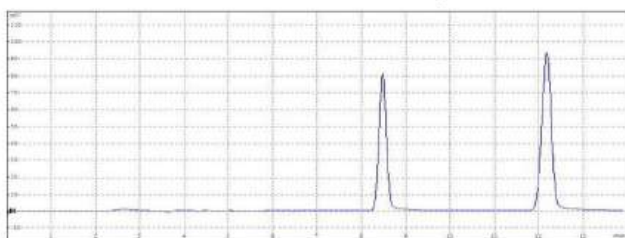
Peptides Purification Test

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

BV C18 10um

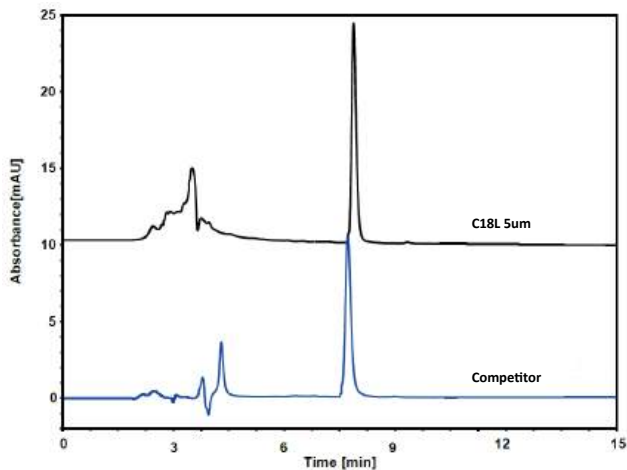
Competitor



C18 AQ Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
5µm	100Å	330m ² /g	13%	2-8



Tripeptide (5ppm)

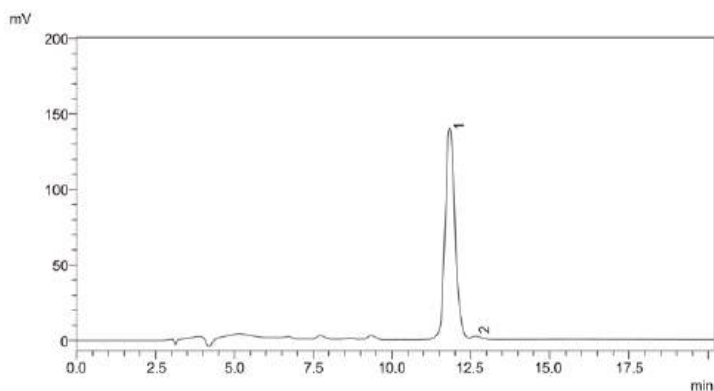
Column: C18AQ 5µm 4.6×250mm
Mobile Phase: 70/30 v/v Water/ MeCN
Injection: 25µL
Flow Rate: 1ml/min
Wavelength: 220nm
Temp.: 25°C

C8 Column

Parameters

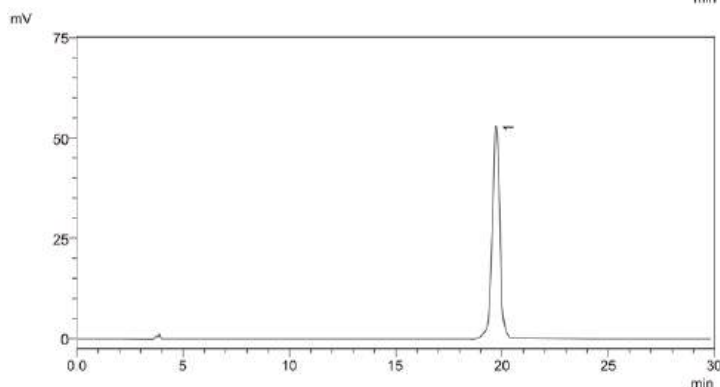
Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/8/10µm	1200Å	330m ² /g	12%	2-8

Application



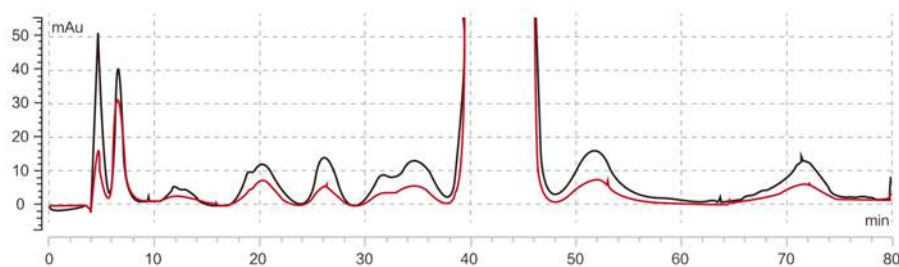
Orlistat

Column: C8 5µm 4.6×250mm
Mobile Phase: water / EtOH
Flow Rate: 1ml/min
Wavelength: 203nm
Temp.: 25°C



Omeprazole enteric-coated tablets

Column: C8 5µm 4.6×250mm
Mobile Phase: water / EtOH
Flow Rate: 1ml/min
Wavelength: 203nm
Temp.: 25 °C



Orlistat

Column: C8 10µm 10×250mm

Mobile Phase: EtOH solution

Flow Rate: 4ml/min

Wavelength: 195nm

Sample:

Dissolved raw material with methyl alcohol

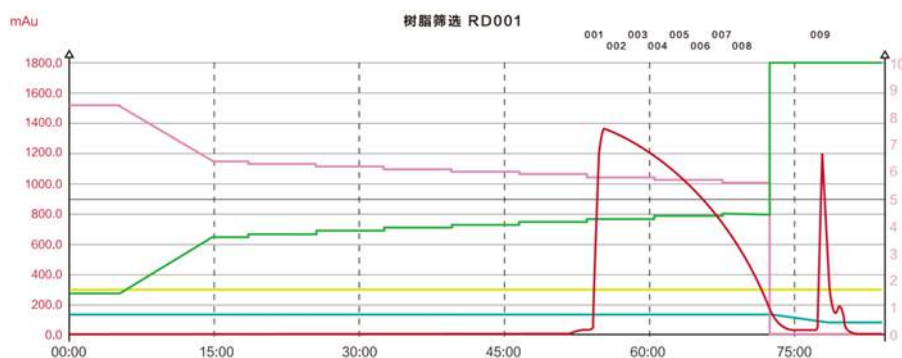
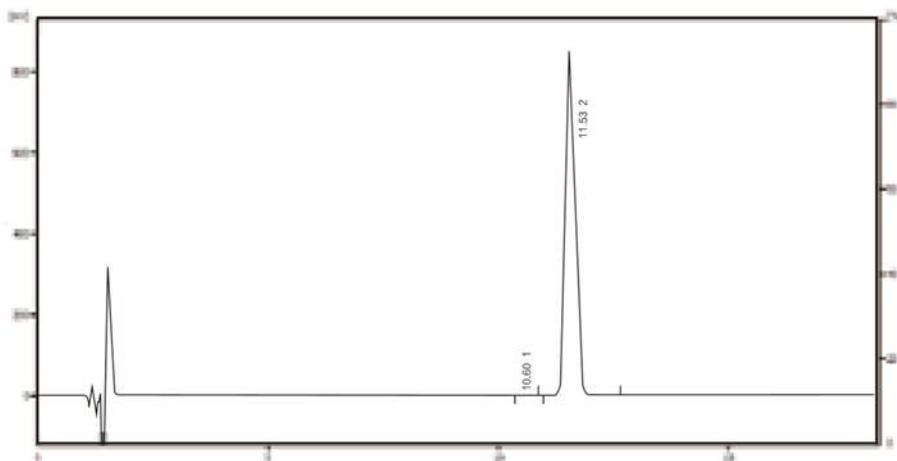
Concentration: 50-60mg/ml

Finished sample

Purification: 99.8%

Single impurity < 0.1%

Recovery: ≥90%



Insulin

Column: C8 8µm 10×250mm

Time	A	B
0	85%	15%
5min	85%	15%
15min	64%	36%
225min	34%	66%

Biovanix C8	Cycle	Injection	Purification	P1	P1c	P2
	1	100ml	99.76%	0.21%	0.02%	0.01%
		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%
	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	100m ² /g	3%	2-8

C8-300 Column

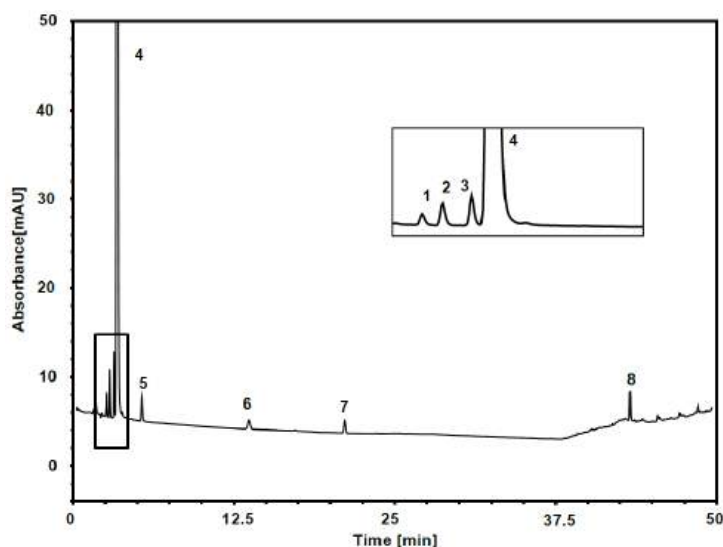
Parameters

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

C18-300 Column

Parameters

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



Riboviron

Column: C18Bio, 5 µm 4.6×150 mm

Mobile Phase:

A) Na₂SO₄, pH2.5;

B) 40/60 v/v MeCN/Na₂SO₄, pH2.5

Gradient:

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

Flow Rate: 1.0 mL/min

Temperature: 30°C

Injection: 10 µL

Detection: UV 220 nm

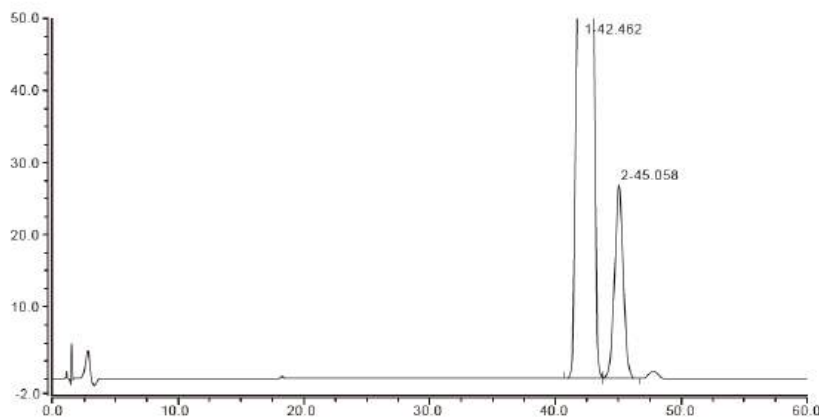
Peaks:

1. triazolinic acid;
2. Triazolamide;
3. Ribavirin acid;
4. 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	330m ² /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

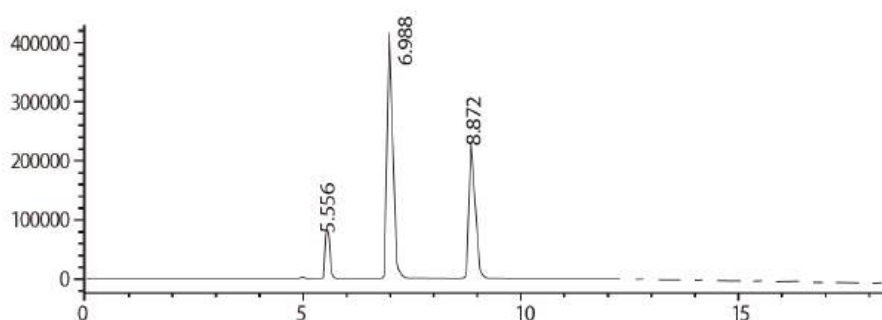
Wavelength: 215nm

Temp.: 30°C

SiO₂ Column

Parameters

Particle Size	Pore Size	Surface Area	pH Range
3/5/10um	80/100/120/200/300Å	100/300/330m ² /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

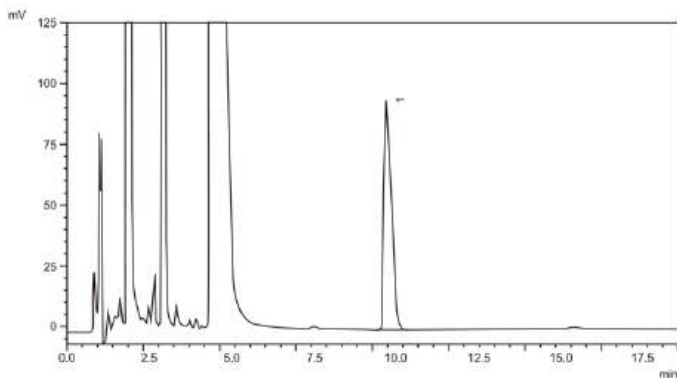
Parameters

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

CN Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	100Å	330m ² /g	7%	2-8



Benzalkonium Chloride

Column: BV CN 5µm 4.6×150mm

Competitor CN 5µm 4.6×150mm

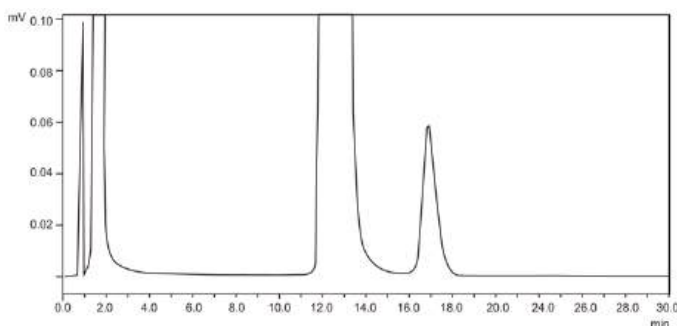
Mobile Phase:

phosphate buffer / acetonitrile

Flow Rate: 2.0ml/min

Wavelength: 214nm

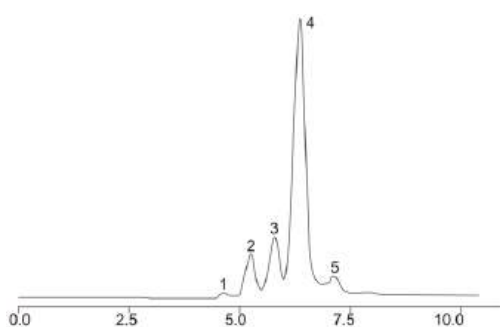
Temp.: 35°C



NH₂ Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5/10um	100Å	330m ² /g	3.5%	2-8



Oligomaltose

Column: Biovanixsil 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

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

	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

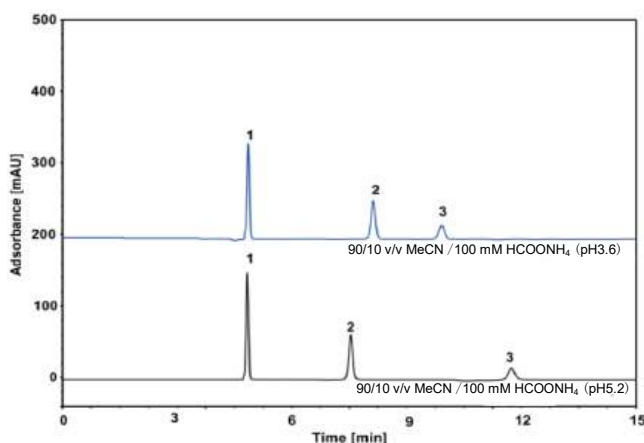
HILIC Column

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
3/5/10µm	120Å	330m ² /g	10%	2-8



Column: HILIC-Diol 5 µm

Dimension: 4.6×250mm

Mobile phase:

Blue: 90/10 v/v MeCN / 100 mM HCOONH₄ (pH3.6)

Black: 90/10 v/v MeCN / 100 mM HCOONH₄ (pH5.2)

Flow rate: 1 mL/min

Temperature: 30°C

Injection: 5 µL

Detection: 218 nm

Peaks: 1. DICY

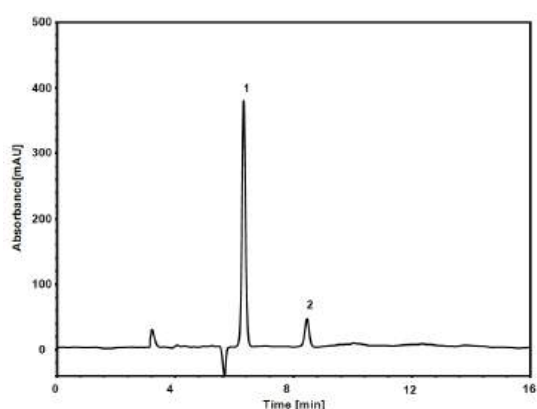
2. MET

3. Melamine

HILIC-Amide Column

Parameters

Particle Size	Pore Size	Surface Area	Carbon Content	pH Range
3/5µm	120Å	300m ² /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

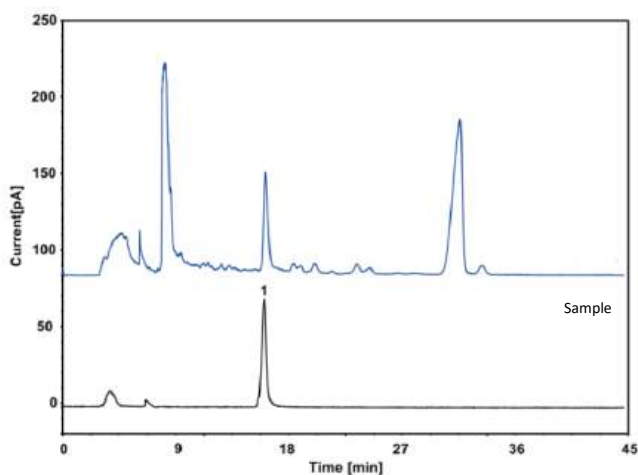
Temperature: 35 °C

Injection: 10 µL

Detection: UV 210 nm

Peaks: 1. Glycine

2. Methionine



Column: HILIC-Amide 5 μm
Dimension: 4.6 \times 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
3/5 μm	120 \AA	300m ² /g	5.5%	2-7

Order Information

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

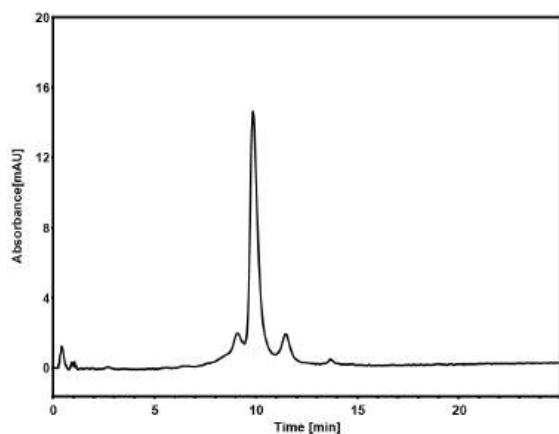
SCX columns are based on sulfonate-modified silica particles. These columns feature a strong cation exchange property and are suitable for cationic analytes.

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	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 Limit	60°C		
pH Range	2-12		

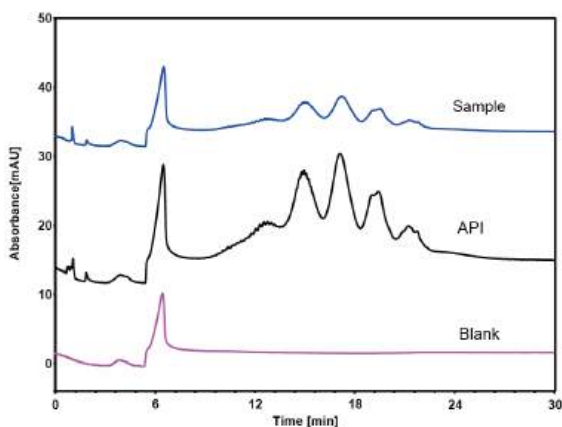
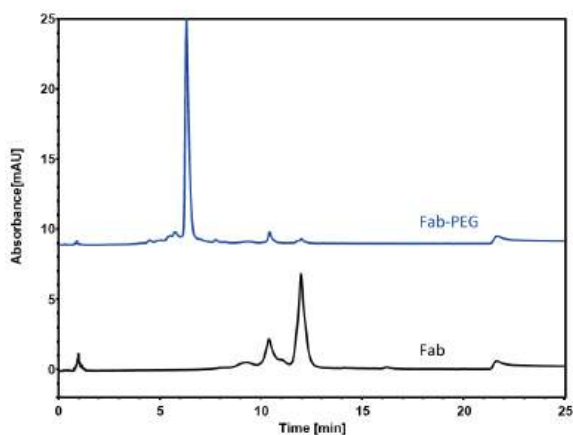


mAb

Column: WCX, 10 µm
Dimension: 4.6x150 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 40
 25.1 0 100
 30 0 100
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: 4.6x150 mm
Mobile Phase: A) 20 mM MES, pH5.5
 B) 300mM NaCl in 20 mM MES, pH5.5
Gradient: t(min) %A %B
 -10 100 0
 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: 4.6x250 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
WCX	5µm	B311-050000-004605	B311-050000-004610	B311-050000-004615	B311-050000-004625
	10µm	B311-100000-004605	B311-100000-004610	B311-100000-004615	B311-100000-004625
SCX	5µm	B411-050000-004605	B411-050000-004610	B411-050000-004615	B411-050000-004625
	10µm	B411-100000-004605	B411-100000-004610	B411-100000-004615	B411-100000-004625
SAX	5µm	B611-050000-004605	B611-050000-004610	B611-050000-004615	B611-050000-004625
	10µm	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 monodispersed 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;

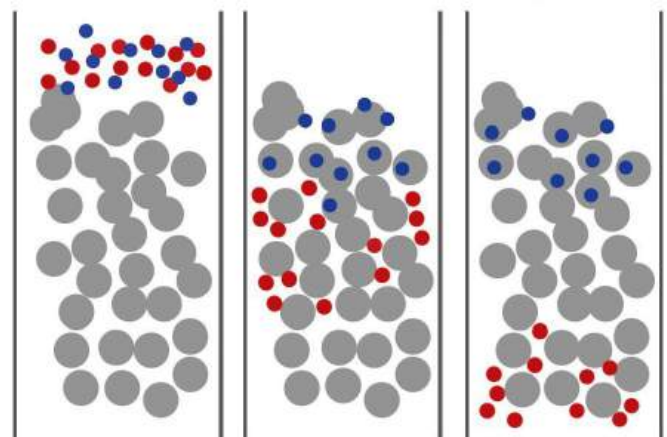
High physical strength for better column lifetime;

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

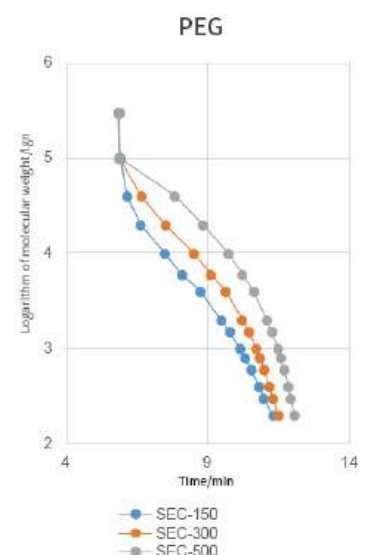
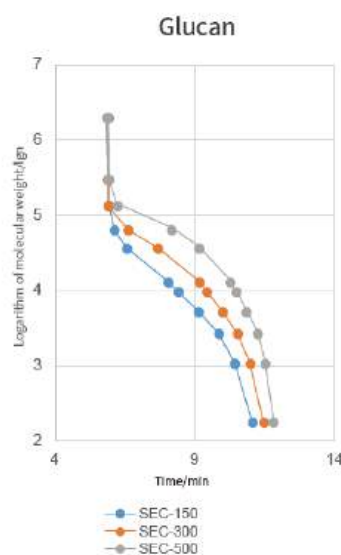
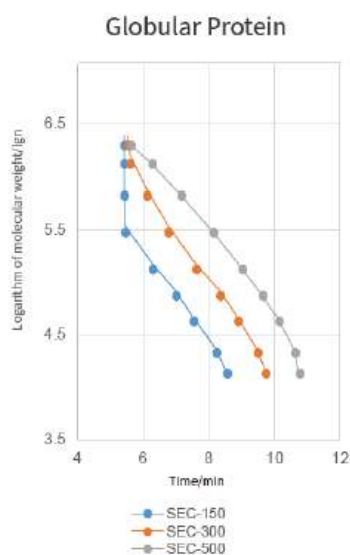
Types

- SEC-120 - designed for small-molecule, 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.

SEC Elution Process

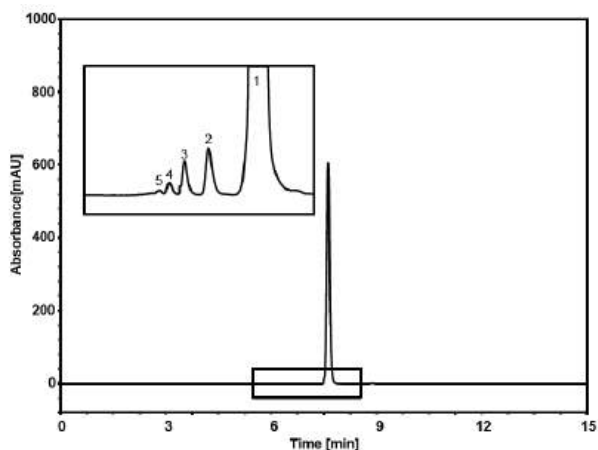


● SEC Resin ● Big Particles ● Small Particles

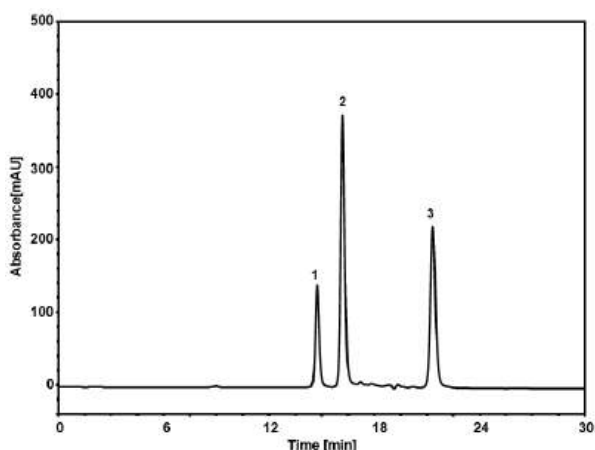


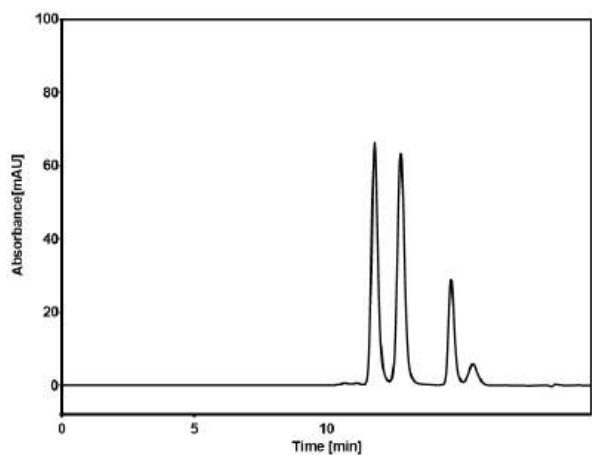
Parameter

	SEC-150	SEC-300	SEC-500
Ligand	Diol		
Substrate	Monodisperse High-pure Silica Particle		
Particle Size	5µm		
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

**Ceftriaxone Sodium****Column:** SEC-120, 5 µm**Dimension:** 7.8×300 mm**Mobile Phase:** 5mM phosphate buffer, pH7.0**Flow Rate:** 1.0 mL/min**Temperature:** 30 °C**Injection:** 2 µL**Detection:** UV 231 nm**Peaks:** 1. Ceftriaxone

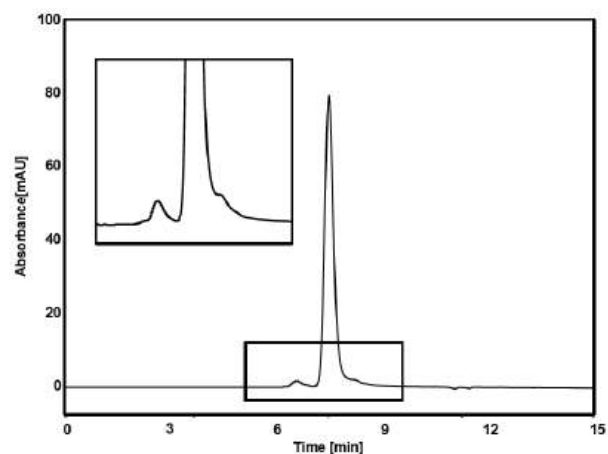
2~5. Polymers of Ceftriaxone

**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**Injection:** 10 µL**Detection:** UV 215 nm**Peaks:** 1. P-3000 2. P-2000 3. P-1000



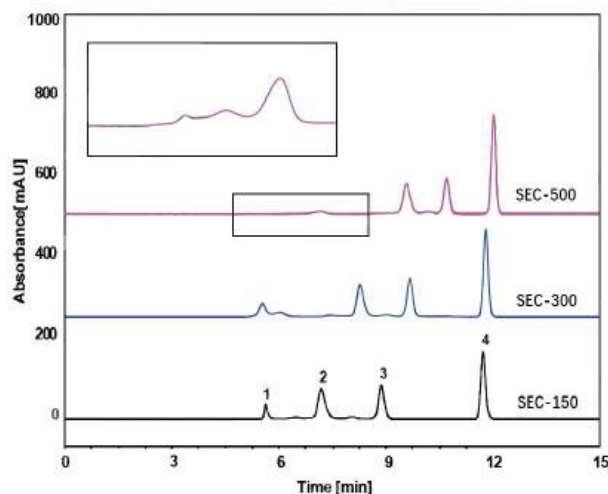
Trispecific Antibody

Column: SEC-300, 3 μ m
Dimension: 4.6x300 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 $^{\circ}$ C
Injection: 2 μ L
Detection: UV 280 nm
Sample: Trispecific Antibody (5 mg/mL)



Fusion Protein

Column: SEC-500, 5 μ m
Dimension: 4.6x300 mm
Mobile Phase: 150 mM phosphate buffer, pH6.8
Flow Rate: 0.35 mL/min
Temperature: 30 $^{\circ}$ C
Injection: 5 μ L
Detection: UV 280 nm
Sample: Fusion Protein (1 mg/mL in H₂O)



Column Black: SEC-150, 5 μ m
Column Blue: SEC-300, 5 μ m
Column Red: SEC-500, 5 μ m
Dimension: 4.6x300mm
Mobile phase: 150 mM Phosphate Buffered Saline (pH 6.8)
Flow rate: 0.35 mL/min
Temperature: 30 $^{\circ}$ C
Injection: 5 μ L
Detection: UV 280 nm
Peaks:
 1. Thyroglobulin (0.5mg/mL) -669,000Da
 2. Conalbumin (1mg/mL) -75,000Da
 3. Ribonuclease A (1mg/mL) -13,700Da
 4. Uracil (0.1mg/mL) -112Da

Order Information

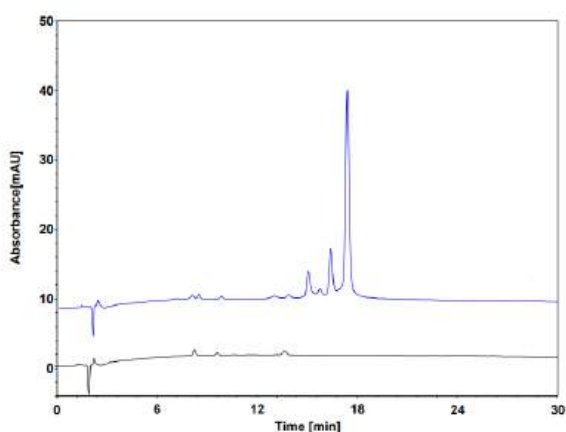
	5um 7.8x300mm	5um 4.6x300mm	5um 4.6x50mm	5um 4.6x10mm
SEC-150	213-05015-07830	213-05015-04630	213-05015-04605	213-05015-04601
SEC-300	213-05030-07830	213-05030-04630	213-05030-04605	213-05030-04601
SEC-500	213-05050-07830	213-05050-04630	213-05050-04605	213-05050-04601

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	5µm	3µm/5µm	3µm/5µm
Pore Size	-	200Å	1000Å
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)

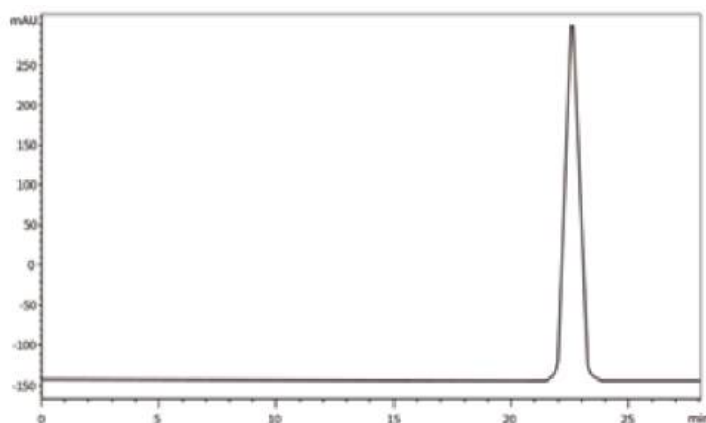
Order Information

	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

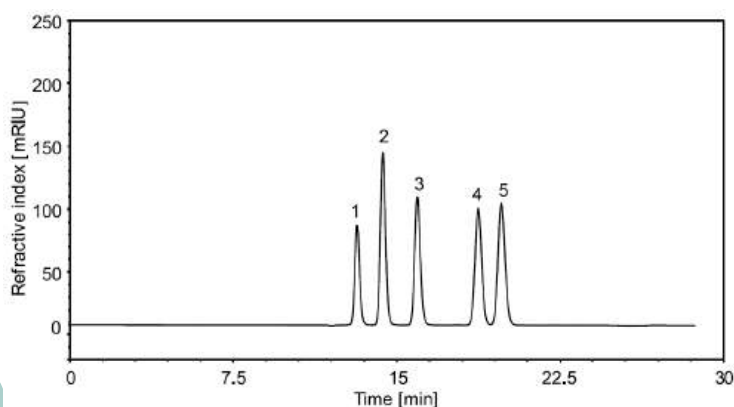
Biovanixsil Sugar analysis column can meet the analysis requirements of different types of polysaccharides, sugar alcohols and organic acids. These columns are produced with two kinds of PS-DVB monodisperse microsphere with different degree of cross-linking. Hydrogen-type, sodium-type and calcium-type 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	-SO ₃ H	-SO ₃ Ca	-SO ₃ Na
Substrate	Monodisperse PS-DVB substrate		
Particle Size	6um/8um		
Degree of crosslinking	0.1		
pH Range	1-3	5-9	5-9
Temperature	<95°C		
Pressure	1200psi		
Application	Organic acids and alcohols mixer	honey and oligosaccharides	sugars and mannitols

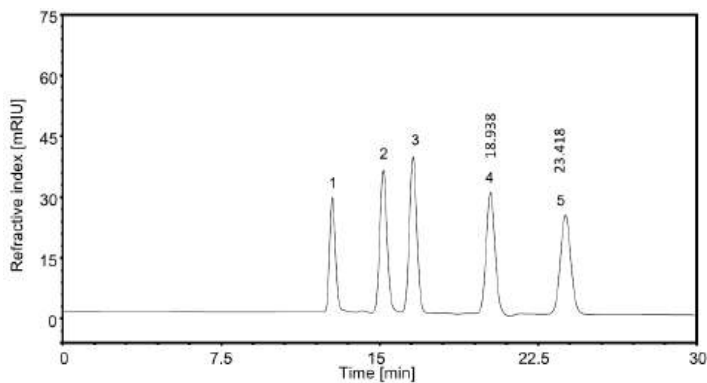


Riboviron, RBV

Column: Sugar-10H, 8um
Dimension: 7.8x300mm
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

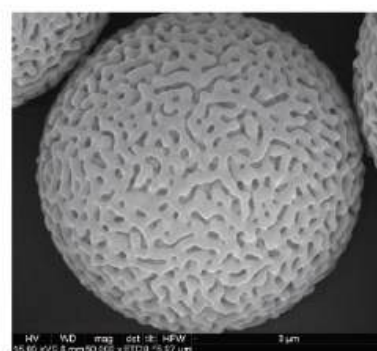
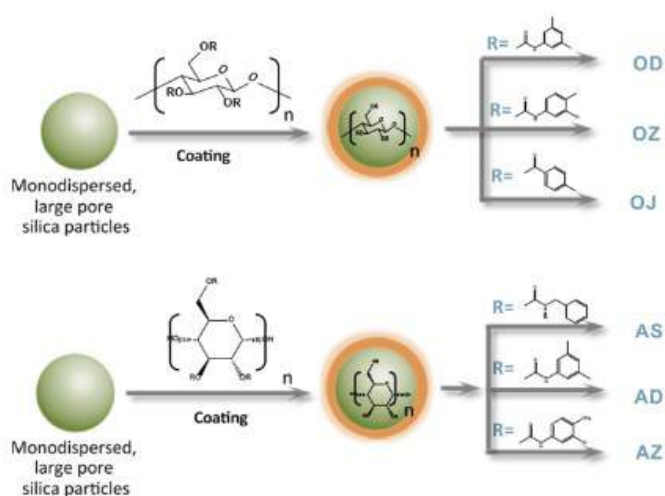
Order Information

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

Chiral Column




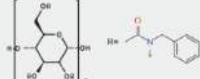
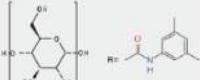
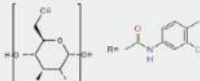
Biovanix Chiral Columns are designed for chiral separation. Unichiral® is polysaccharide derivative bond with microporous silica-gel substrate which has the advantages of high capacity of cellulose/amylose derivative, good stability and high chiral separation ability.

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

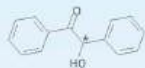
Specification

Product Name	Surface Functional Groups	Column Specification
Chiral OD		5 μm, 4.6×50 mm 5 μm, 4.6×100 mm 5 μm, 4.6×150 mm 5 μm, 4.6×250 mm
Chiral OJ		
Chiral OZ		
Chiral AS		
Chiral AD		
Chiral AZ		

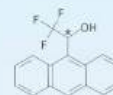
Compare with famous Chiral Column



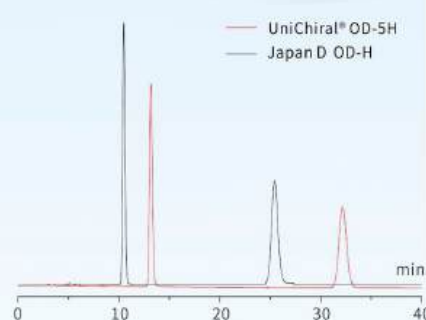
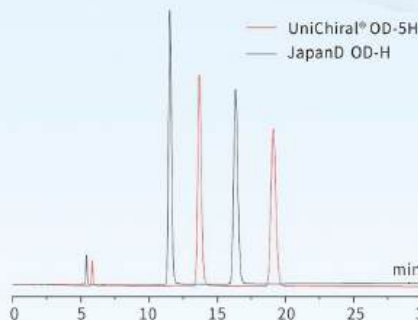
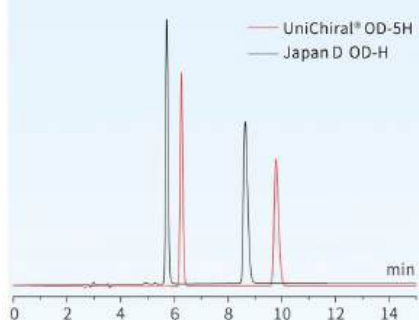
Sample: Trans-Stilbene oxide
 Column: UniChiral OD-5H
 4.6×250mm
 Mobile Phase: Hexane/IPA=9:1
 Flow Rate: 1mL/min
 Wavelength: UV 254nm
 Temp.: 25°C



Sample: Benzoin
 Column: UniChiral OD-5H
 4.6×250mm
 Mobile Phase: Hexane/IPA=9:1
 Flow Rate: 1mL/min
 Wavelength: UV 254nm
 Temp.: 25°C



Sample: 2,2,2-Trifluoro-1-(9-anthryl)ethanol
 Column: UniChiral OD-5H
 4.6×250mm
 Mobile Phase: Hexane/IPA=9:1
 Flow Rate: 1mL/min
 Wavelength: UV 254nm
 Temp.: 25°C

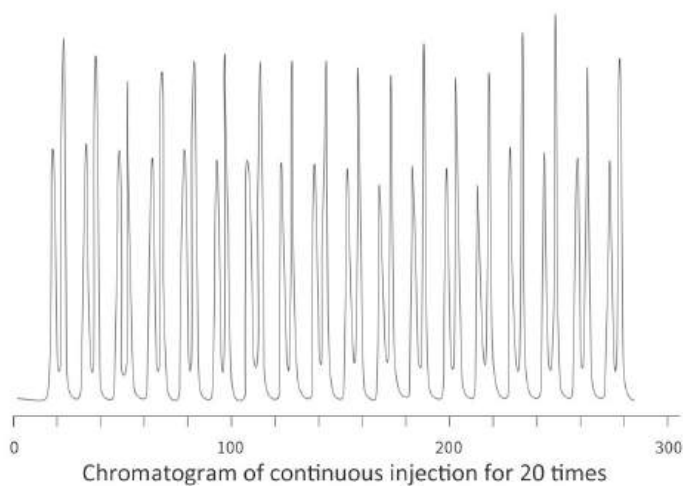


Theoretical Plates		Tailing Factor		α	
UniChiral	Japan D	UniChiral	Japan D	UniChiral	Japan D
16222	15267	1.149	1.214	2.07	2.07
14779	13740	1.345	1.437		

Theoretical Plates		Tailing Factor		α	
UniChiral	Japan D	UniChiral	Japan D	UniChiral	Japan D
11899	12219	1.167	1.197	1.50	1.56
12707	12150	1.114	1.154		

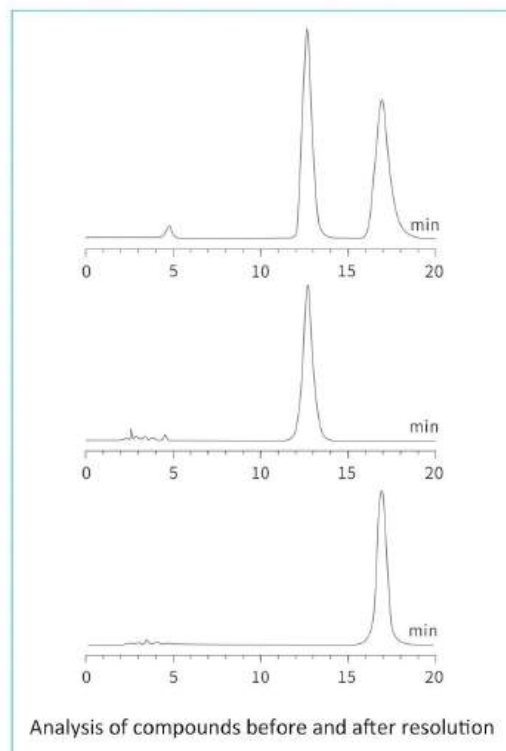
Theoretical Plates		Tailing Factor		α	
UniChiral	Japan D	UniChiral	Japan D	UniChiral	Japan D
9138	8300	1.101	1.090	2.85	2.99
8287	7205	1.066	1.058		

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

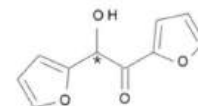
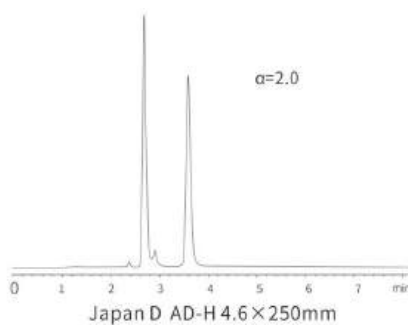
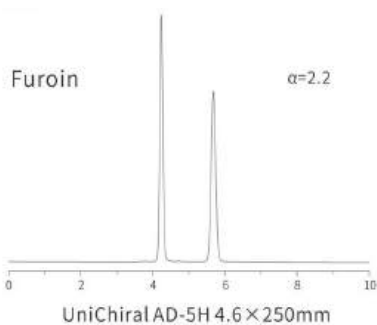


Chiral Column Application

Column: UniChiral® OD-5H
 50×250mm
 Injection: 100mg every time
 ee Value: >99
 Yield: ~90%
 Flow Rate: 80mL/min
 Column Pressure: 2MPa

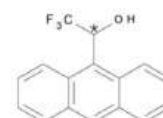
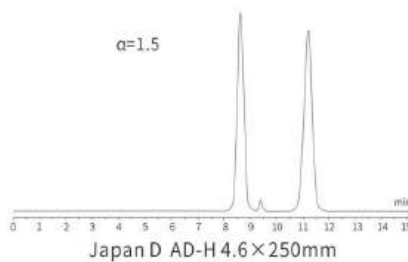
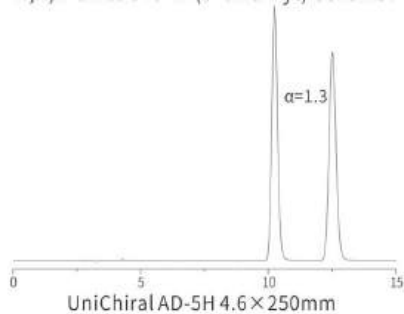


UniChiral® chiral column has lower pressure and satisfied separation ability.



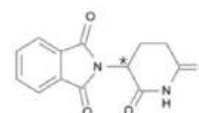
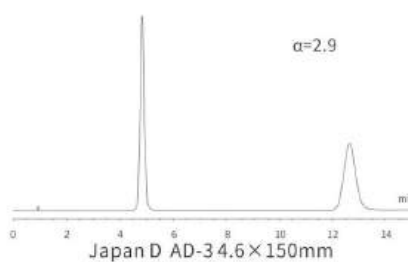
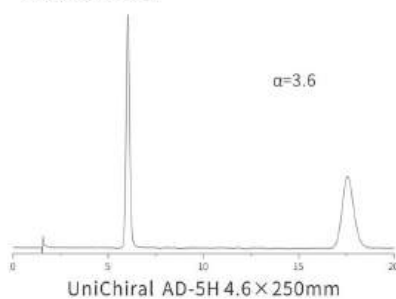
Mobile Phase: EtOH
Flow Rate: 1mL/min
Wavelength: UV 270nm
Temp.: 25°C

2,2,2-trifluoro-1-(9-anthryl) ethanol



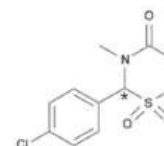
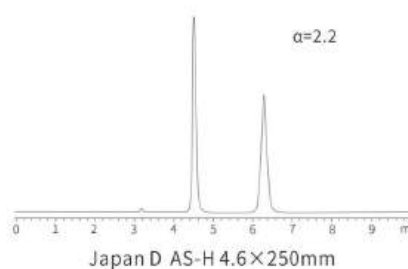
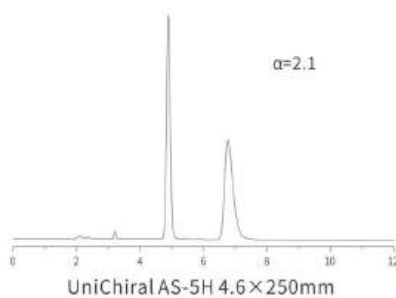
Mobile Phase: Hexane/IPA=90:10
Flow Rate: 1mL/min
Wavelength: UV 254nm
Temp.: 25°C

Thalidomide



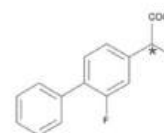
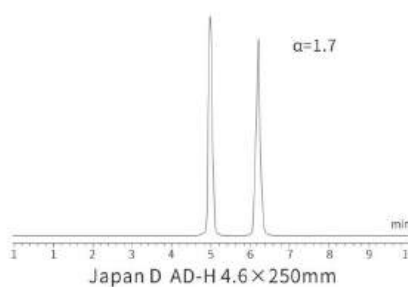
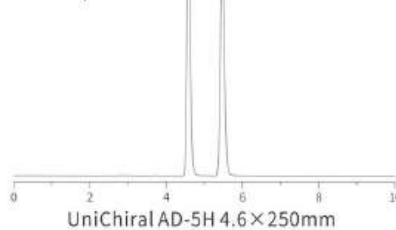
Mobile Phase: MeOH
Flow Rate: 2mL/min
Wavelength: UV 220nm
Temp.: 25°C

Chlormezanoneh

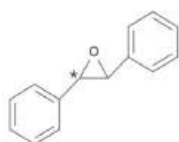
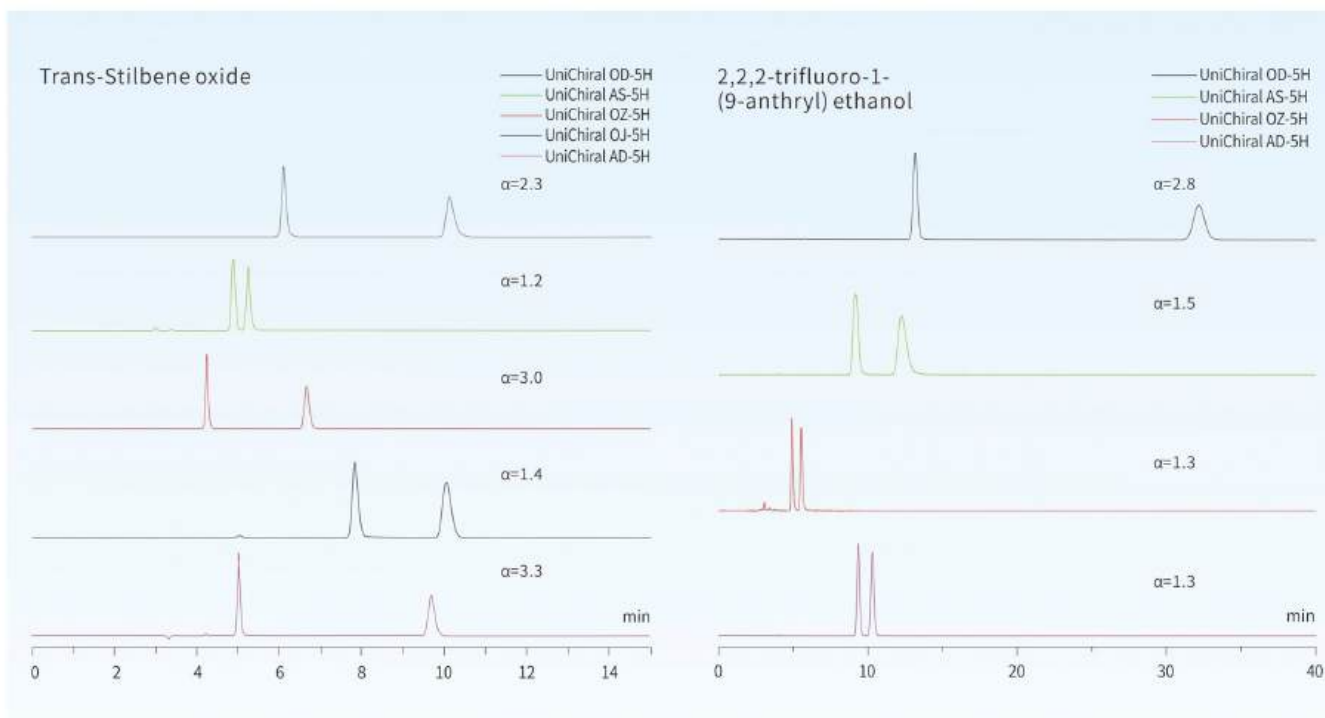


Mobile Phase: MeOH
Flow Rate: 1mL/min
Wavelength: UV 210nm
Temp.: 30°C

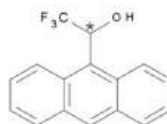
Flurbiprofen



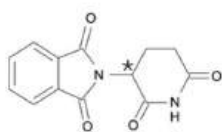
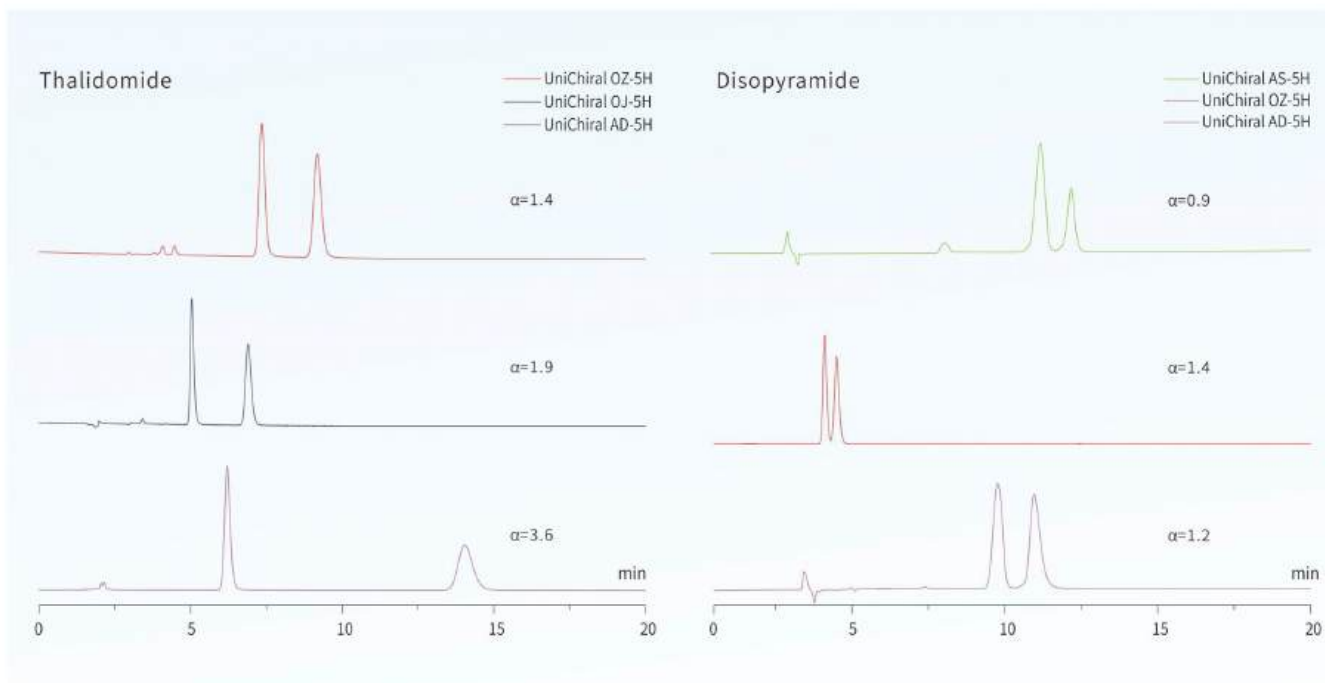
Mobile Phase: Hexane/IPA/TFA=80:20:0.1
Flow Rate: 1mL/min
Wavelength: UV 254nm
Temp.: 25°C



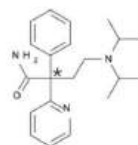
Column: 4.6x250mm, 5 μ m
 Mobile Phase: Hexane/IPA=90:10
 Flow Rate: 1mL/min
 Wavelength: UV 254nm
 Temp.: 25 $^{\circ}$ C



Column: 4.6x250mm, 5 μ m
 Mobile Phase: Hexane/IPA=90:10
 Flow Rate: 1mL/min
 Wavelength: UV 254nm
 Temp.: 25 $^{\circ}$ C



Column: 4.6x250mm, 5 μ m
 Mobile Phase: MeOH
 Flow Rate: 2mL/min
 Wavelength: UV 220nm
 Temp.: 25 $^{\circ}$ C

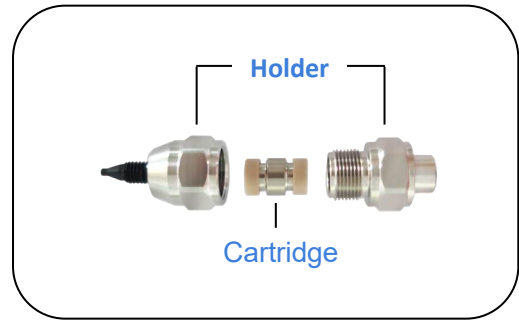


Column: 4.6x250mm, 5 μ m
 Mobile Phase: EtOH/DEA=99.9:0.01
 Flow Rate: 1mL/min
 Wavelength: UV 254nm
 Temp.: 25 $^{\circ}$ C

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- divinylbenzene 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- divinylbenzene 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 quaternary amino groups) functional groups chemically bonded to porous or non-porous silica or ceramic microparticles, 1.0 to 50 µm in diameter, or a monolithic rod	SAA
L80	Cellulose tris(4-methylbenzoate)-coated, porous, spherical, silica particles, 5 - 20 µm 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

Protein A Analysis Column

Biovanix 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, hydrophilic 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

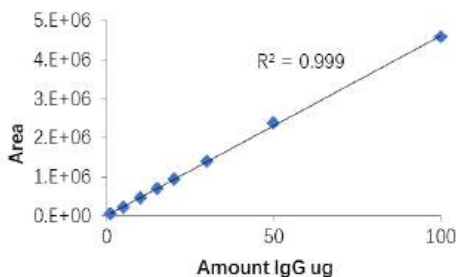
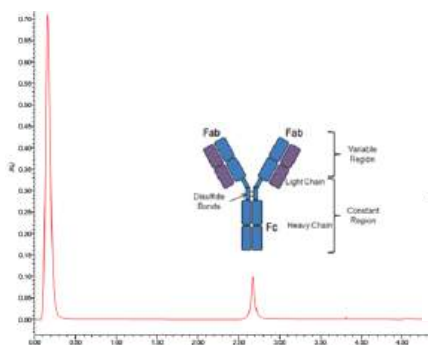
- Direct use on HPLC instruments
- High dynamic binding capacity, quick mass transfer
- Minimum nonspecific absorption, accurate determination
- Fast analysis cycle time: 2-5 minutes
- Satisfactory linearity in wide concentration range: 0.02-10 mg/ml
- Long lifetime
- Alkali resistance: 0.1-0.5 M NaOH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

Parameter

	Pr-A Column	Pr-A Plus Column
Column Size	2.1mm ID × 30mm L; 4.6mm ID × 50mm L	
Column Tube Material	316L Stainless steel, PEEK	
Support Matrix	Polystyrene Divinylbenzene (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	pH 2-10	
Maximum Pressure	1000 psi	
Cleaning Agents	0.1-0.5M NaOH	
Cycle Time	2-5 minutes	
Temperature Stability	4-40 °C	

Excellent Linearity

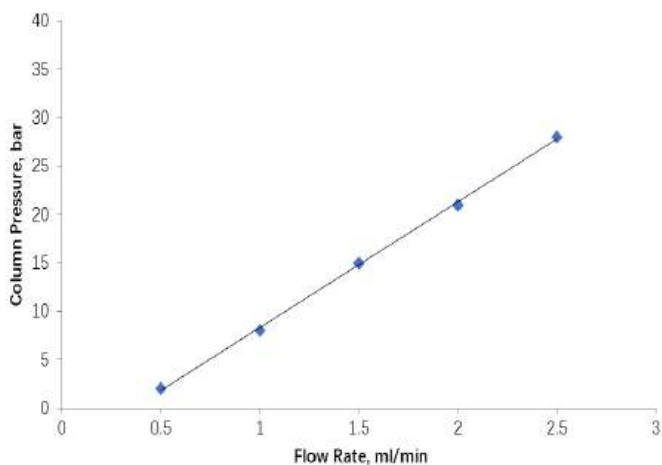
Quantitative analysis for antibody fermentation broth by Protein A column.



Column: Pr-A 2×30mm
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

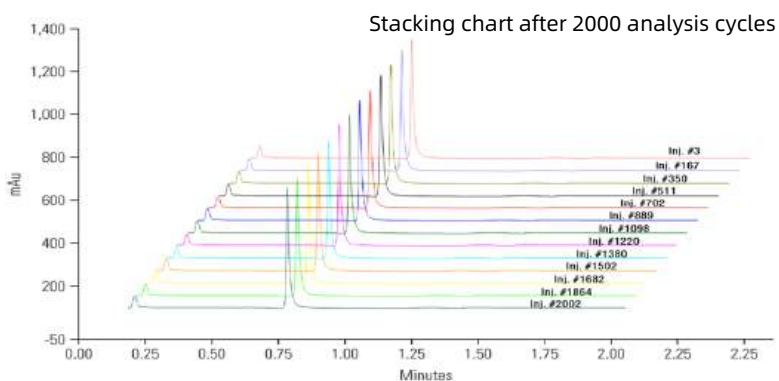
Flow Rate and Pressure

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



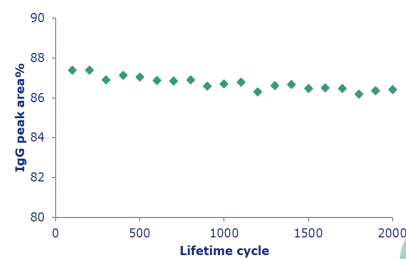
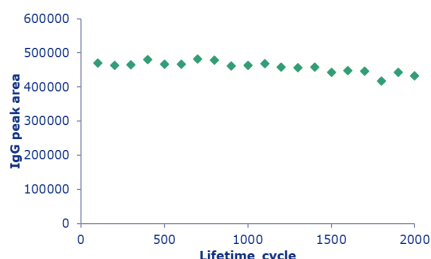
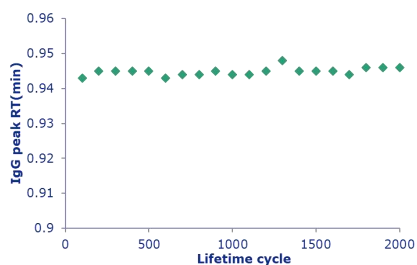
Column: Pr-A, 2.0×30mm
Eluent A: 20mM PB, 150mM NaCl, pH7.4
Eluent B: 0.1%HCl, 150mM NaCl
Temp: 25 °C
System: Waters 1525 pump

Long Lifetime



Column	Pr-A, 2×30 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°C
Detection	280 nm
Injection volume	10 uL
Sample	hlgG, 1 mg/mL

Statistical analysis of data demonstrates



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	330m ² /g	16%	2-8
C8	5/10 um	100Å	330m ² /g	12%	2-8
C4-300	5/10um	300Å	100m ² /g	3%	2-8
C8-300	5/10um	300Å	100m ² /g	5%	2-8
C18-300	5/10 um	300Å	100m ² /g	8%	2-8
Phenyl	5/10 um	100Å	330m ² /g	8%	2-8
SiO ₂	5/10 um	100Å	330m ² /g	-	2-8
NH ₂	5/10 um	100Å	330m ² /g	4%	2-8
CN	5/10 um	100Å	330m ² /g	7%	2-8
Diol	5/10 um	100Å	330m ² /g	8%	2-8

Agarose Media

Biovanix Agarose media 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.

Advantages

- Stable bonding
- Low ligand leaching
- NaOH CIP

	Pr A 4FF	Pr G 4FF	IgM 6HP	IgY 6HP
Substrate	4% cross-linked agarose		6% cross-linked agarose	
Ligand	rProtein A	rProtein G	IgM	IgY
Particle Size	90µm (45-165µm)		37µm (25-45µm)	
Capacity (DBC)	20mg hIgG/ml	25mg hIgG/ml	5mg hIgG/ml	20mg hIgG/ml
pH Stability	2-10 (Short) 3-9 (Long)		2-13 (Short) 3-11 (Long)	
Max. Pressure	0.3MPa			
Flow Rate	300cm/h	300cm/h	150cm/h	150cm/h
Storage	4-8 °C, 20% EtOH			

Purification of IgG in human serum

Sample: 5ml human serum with five times dilution (different buffers)

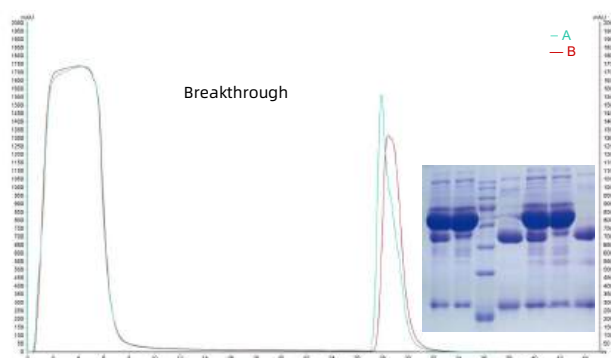
Column: HT01 1.0ml Protein G 4FF

Balance: A 0.02 M PB pH7.0;

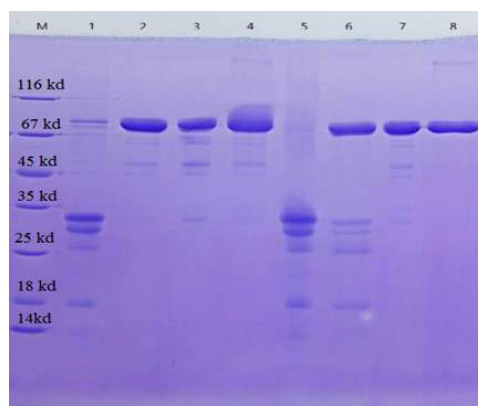
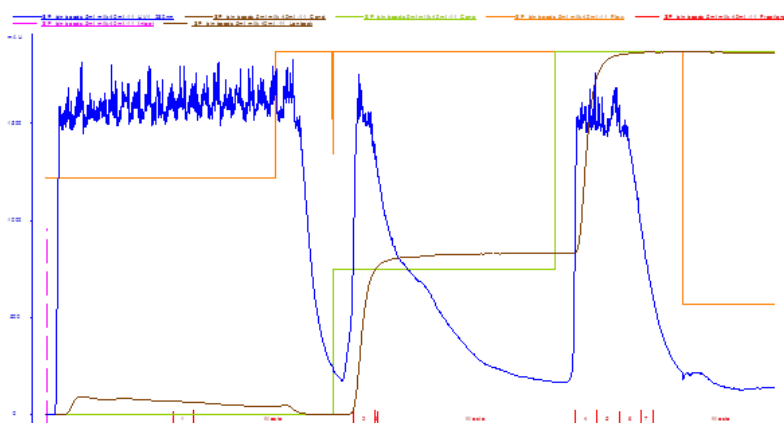
B 0.02M PB, 0. 3M NaCl pH 7.0

Elution: 0.1 M Glycine-HCl pH2.7

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



Protein Purification



Ni Affinity Media

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 NTA Media

Biovanix Ni IMAC/IMAC+ media use Ni²⁺ to interact with amino acids (histidine, cysteine, tryptophan) on the side chain of protein. It is suitable for the separation and purification of His tag proteins and biomolecules interacting with Ni²⁺.

Substrate	6% high cross-linked agarose
Particle Size	90µm (45-165µm) BV Ni IMAC/NTA; 37µm(25-45µm) BV Ni IMAC/NTA+
Binding Capacity	Approx. 40 mg His (tag protein)/ml media
pH Stability	3-12 (Working); 2-14 (Cleaning)
Max. Pressure	0.3MPa
Chemical Stability	0.01M HCl; 0.01M NaOH (one week); 1M NaOH; 70%EtOH(12 hours); 2% SDS(1 hour); 30% isopropanol (0.5 hour)
Storage	4-15 °C, 20°C EtOH

Ni IDA Media

Substrate	6% high cross-linked agarose
Particle Size	90µm (45-165µm)
Binding Capacity	Approx. 45 mg His (tag protein)/ml media
pH Stability	3-12 (Working); 2-14 (Cleaning)
Max. Pressure	0.3MPa
Chemical Stability	Common aqueous solutions and buffers. Avoid chelating agents (EDTA, EGTA) and reducing agents (DTT, DTE)
Storage	4-15 °C, 20°C EtOH

Ni TED Media

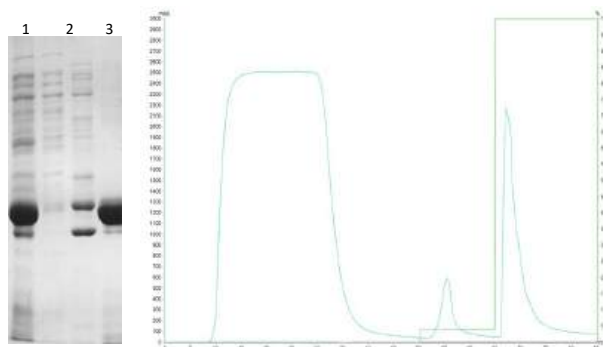
Tolerance of higher reducing agents and chelating agents, eukaryotic secreted expression of His tag protein can loading without prior treatment, maximum protect the activity of protein.
 Direct use NaOH for cleaning without nickel removal, reduce cleaning time.
 Lower nickel shedding, no need for repeated regeneration.

Substrate	6% high cross-linked agarose
Particle Size	90µm (45-165µm)
Binding Capacity	Approx. 20 mg His (tag protein)/ml media
pH Stability	3-12 (Working); 2-14 (Cleaning)
Max. Pressure	0.3MPa
Chemical Stability	0.01M hydrochloric acid; 0.01M sodium hydroxide (one week); 20mM EDTA; 10mM DTT; 1M sodium hydroxide; 8M urea; 100mM EDTA; 0.5m imidazole (2 hours); 6M guanidine hydrochloride (24 hours); 30% isopropanol (20 min)
Storage	4-15 °C, 20°C EtOH

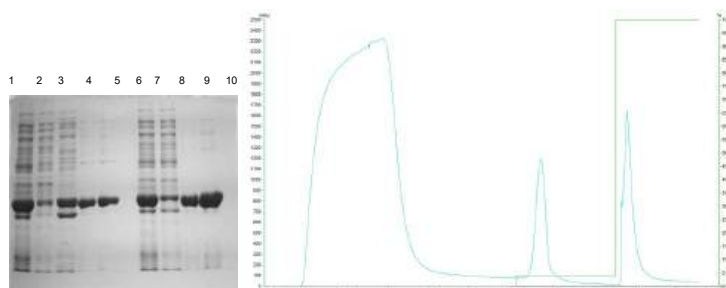
Application Case

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. Breakthrough; 3. Elution(4%B); 4. Elution (100%B)

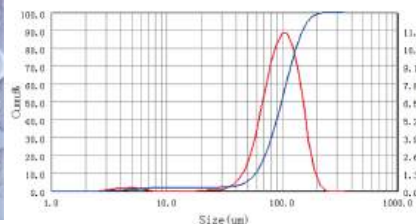


Column: 1ml
Sample: E. coli cracking supernatant (His tag protein)
Equilibrium liquid: 0.02MPB、0.5MNaCl, pH 7.4
Elution: 0.02MPB、0. M NaCl、Imidazole, pH 7.4
Flow Rate: 1ml/min
 1. Original; 2. Breakthrough; 3. Elution(4%B); 4. Elution(100%B); 5. Elution(100%B); 7. Original; 8. Breakthrough; 9. Elution(4%B); 10. Elution(100%B)
 No imidazole in 1-5. 0.02M imidazole in 7-10.



Ion-exchange Agarose Resin

Biovanix provide agarose based ion-exchange media such as SP, Q, ANX, MMA, MMC, CM, DEAE to meet different purification needs.



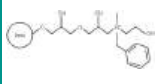
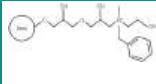
Strong Cation IEX SP Media

	SP 6BB	SP 6FF	SP 6HF	SP 6HP	SP 6XL	SP HPR
Substrate	6% cross-linked Agarose		High-rigid Agarose	6% cross-linked Agarose	6% cross-linked Agarose with glucan	High-rigid Agarose
Particle Size	200µm (165-300µm)	90µm (45-165µm)	90µm (45-165µm)	37µm (25-45µm)	90µm (45-165µm)	37µm (25-45µm)
Ligand	-CH ₂ CH ₂ CH ₂ SO ₃ ⁻					
Loading Capacity	180-250µmol H ⁺ /ml resin		140-200µmol H ⁺ /ml resin	150-200µmol H ⁺ /ml resin	180-250µmol H ⁺ /ml resin	130-160µmol H ⁺ /ml resin
pH Stability	4-13 (Long) 3-14 (Short)		4-12 (Long) 3-14 (Short)	4-13 (Long) 3-14 (Short)		4-12 (Long) 3-14 (Short)
Pressure	≤0.3MPa					≤0.5MPa
Flow Rate	1800cm/h	700 cm/h	100 cm/h	150 cm/h	700 cm/h	400 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°C					

Strong Anion IEX Q Media

	Q 6BB	Q 6FF	Q 6HF	Q 6HP	Q 6XL	Q HPR
Substrate	6% cross-linked Agarose		High-rigid Agarose	6% cross-linked Agarose	6% cross-linked Agarose with glucan	High-rigid Agarose
Particle Size	200µm (165-300µm)	90µm (45-165µm)	90µm (45-165µm)	37µm (25-45µm)	90µm (45-165µm)	37µm (25-45µm)
Ligand	-N ⁺ (CH ₃) ₃					
Loading Capacity	180-250µmol Cl ⁻ /ml resin		160-200µmol Cl ⁻ /ml resin	140-200µmol Cl ⁻ /ml resin	180-250µmol Cl ⁻ /ml resin	150-180µmol Cl ⁻ /ml resin
pH Stability	2-12 (Long Period) 2-14 (Short Period)		2-12 (Long) 2-14 (Short)	2-12 (Long) 2-14 (Short)		2-12 (Long) 2-14 (Short)
Pressure	≤0.3MPa					≤0.5MPa
Flow Rate	1800cm/h	700 cm/h	1000 cm/h	150 cm/h	700 cm/h	400 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, 4-30°C					

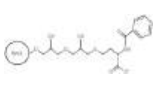
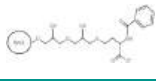
Strong Anion IEX MMA Media

	Substrate	Particle Size	Ligand	Capacity	pH Stability	pH Stability	Flow Rate
MMA 6HF	High Rigid Agarose	90µm (45-165µm)		90-120µmol Cl ⁻ /ml resin	2-14 (Long) 4-12 (Short)	≤0.5 MPa	1000 cm/h
MMA HPR	High Rigid Agarose	37µm (25-45µm)		80-110µmol Cl ⁻ /ml resin	2-14 (Long) 4-12 (Short)	≤0.5 MPa	400 cm/h
Chemical Stability	All common buffer, 1.0m NaOH, 8.0m urea, 6.0m guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer						
Storage	20% EtOH, 4-30°C						

Weak Cation IEX CM Media

	CM 6FF	CM 6HF	CM 6HP	CM 6XL
Substrate	6% cross-linked Agarose	High-rigid Agarose	6% cross-linked Agarose	6% cross-linked Agarose with glucan
Particle Size	90µm (45-165µm)	90µm (45-165µm)	37µm (25-45µm)	90µm (45-165µm)
Ligand	-O-CH ₂ COO ⁻			
Capacity	90-130µmol H ⁺ /ml resin	90-120µmol H ⁺ /ml resin	80-110µmol H ⁺ /ml resin	180-250µmol H ⁺ /ml resin
pH Stability	4-13 (Long) 2-14 (Short)	4-12 (Long) 3-14 (Short)	4-13 (Long) 2-14 (Short)	
Pressure	≤0.3 MPa	≤0.5MPa	≤0.3 MPa	
Flow Rate	700 cm/h	1000 cm/h	150 cm/h	700 cm/h
Chemical Stability	All common buffer, 1.0m NaOH, 8.0m urea, 6.0m guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer			
Storage	20% EtOH, 4-30°C			

Weak Cation IEX MMC Media

	Substrate	Particle Size	Ligand	Capacity	pH Stability	pH Stability	Flow Rate
MMC 6HF	High Rigid Agarose	90µm (45-165µm)		70-90µmol H ⁺ /ml resin	2-14 (Long) 3-12 (Short)	≤0.5 MPa	1000 cm/h
MMC HPR	High Rigid Agarose	37µm (25-45µm)		60-80µmol H ⁺ /ml resin	2-14 (Long) 3-12 (Short)	≤0.5 MPa	400 cm/h
Chemical Stability	All common buffer, 1.0m NaOH, 8.0m urea, 6.0m guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer						
Storage	20% EtOH, 4-30°C						

Weak Anion IEX DEAE Media

	DEAE 6FF	DEAE 6HF	DEAE 6HP	DEAE 6XL
Substrate	6% cross-linked Agarose	High-rigid Agarose	6% cross-linked Agarose	6% cross-linked Agarose
Particle Size	90µm (45-165µm)	90µm (45-165µm)	37µm (25-45µm)	90µm (45-165µm)
Ligand	-N ⁺ (CH ₃) ₃			
Capacity	110-160µmol Cl ⁻ /ml resin	290-350µmol Cl ⁻ /ml resin	90-130µmol Cl ⁻ /ml resin	110-160µmol Cl ⁻ /ml resin
pH Stability	2-13 (Long) 1-14 (Short)	2-12 (Long) 2-14 (Short)	2-13 (Long) 1-14 (Short)	
Pressure	≤0.3 MPa	≤0.5MPa	≤0.3 MPa	
Flow Rate	700 cm/h	1000 cm/h	150 cm/h	700 cm/h
Chemical Stability	All common buffer, 1.0m NaOH, 8.0m urea, 6.0m guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer			
Storage	20% EtOH, 4-30°C			

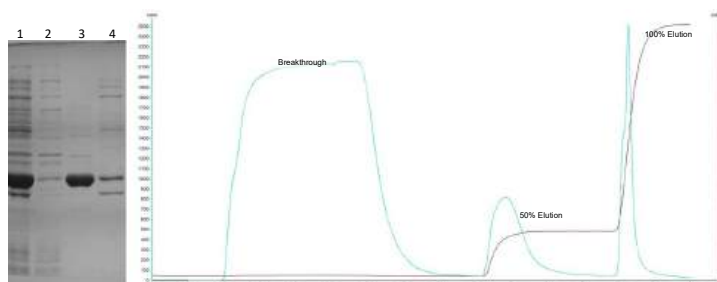
Weak Anion IEX ANX Media

	Substrate	Particle Size	Ligand	Capacity	pH Stability	pH Stability	Flow Rate
ANX 4FF	4% cross-linked Agarose	90µm (45-165µm)	-N ⁺ (C ₂ H ₅) ₂ H	130-170µmol Cl ⁻ /ml resin	3-10 (Long) 2-14 (Short)	≤0.3 MPa	250 cm/h
Chemical Stability	All common buffer, 1.0m NaOH, 8.0m urea, 6.0m guanidine hydrochloride, 70% ethanol Avoid using oxidant, cationic detergent, cationic buffer						
Storage	20% EtOH, 4-30°C						

Moderately Purified Fusion Protein

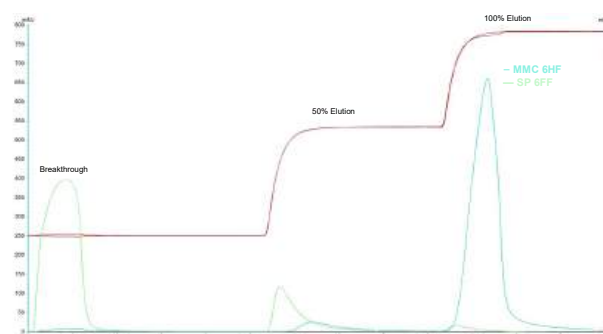
Sample: 20ml e. coli lysate
 Column: BVgel DEAE 6FF 1ml
 Equilibrium solution: 0.02m Triethanolamine, pI7.5
 Eluent: 0.02M Triethanolamine, 1.0M NaCl, pI7.5
 Flow Rate: 1 ml / min

1. Original; 2. Breakthrough; 3. 50% Elution; 4. 100% Elution



MMC 6HF VS. SP 6FF

Column: 1ml
 Sample: 25 mg BSA (pI 5.4-5.6) solve in 5ml equilibrium liquid
 Equilibrium liquid: 0.05 M NaAc, 0.25 M NaCl pH4.75
 Eluant: 0.02MPB, 1.0M NaCl pH7.4

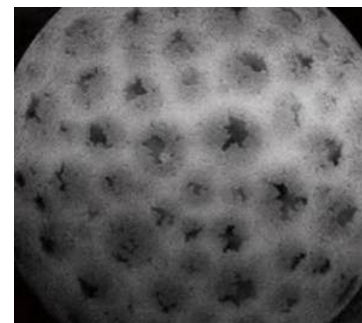
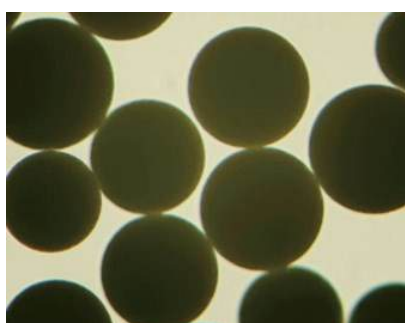


PSDVB/PMMA Polymer Microsphere

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, obtaining 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 mechanization is high;
- The molecular mass transfer rate is fast, and better separation can be achieved at higher flow rates.



Product	Poly15 SP	Poly15 Q	Poly30 SP	Poly30 Q
Matrix	Monodisperse PS-DVB			
Particle Size	15um		30um	
Function Group	(-CH ₂)SO ₃ ⁻	-CH ₂ N ⁺ (CH ₃) ₃	(-CH ₂)SO ₃ ⁻	-CH ₂ N ⁺ (CH ₃) 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	
Max. Pressure	8.0MPa		5.0MPa	
pH Stability	2-12			
Chemical Stability	All commonly used buffers, 1M acetic acid, 1M sodium oxochloride, 1M hydrochloric acid, 70% ethanol 30% isopropyl alcohol, 30% acetoni- trile, 1%SDS, 6M guanidine hydrochloride, 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				Poly 50G				Poly 50V			
Matrix	SP	Q	CM	DEAE	SP	Q	CM	DEAE	SP	Q	CM	DEAE
Function Group	PS-DVB				PS-DVB				PS-DVB			
Particle Size	50um				50um				50um			
Pore Size	100-150nm				150-300nm				300-400nm			
Ligand Density	0.15meq/mL	0.16meq/mL	0.15meq/mL	0.16meq/mL	0.14meq/mL	0.15meq/mL	0.14meq/mL	0.15meq/mL	0.12meq/mL	0.13meq/mL	0.12meq/mL	0.133meq/mL
Capacity	> 80mg Lys	> 100mg BSA	> 80mg Lys	> 90mg BSA	> 70mg Lys	> 90mg BSA	> 70mg Lys	> 65mg BSA	> 70mg Lys	> 90mg BSA	> 70mg Lys	> 65mg BSA
Flow Rate	300~1200cm/h				300~1200cm/h				300~1200cm/h			
Max. Pressure	3.0MPa				2.0MPa				1.0MPa			
pH Stability	1-12											
Chemical Stability	All commonly used buffers, 1M acetic acid, 1M sodium oxchloride, 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°C											
Storage	2~30°C, 20% ethanol											

Product	PM 50S				PM 50M				PM 50G				PM 50V			
Matrix	SP	Q	CM	DEAE	SP	Q	CM	DEAE	SP	Q	CM	DEAE	SP	Q	CM	DEAE
Function Group	PMMA															
Particle Size	50um															
Pore Size	100nm				100-150nm				150-300nm				300-400nm			
Ligand Density	0.18 meq/mL	0.19 meq/mL	0.20 meq/mL	0.18 meq/mL	0.11 meq/mL	0.17 meq/mL	0.16 meq/mL	0.15 meq/mL	0.11 meq/mL	0.09 meq/mL	0.08 meq/mL	0.09 meq/mL	0.11 meq/mL	0.09 meq/mL	0.08 meq/mL	0.09 meq/mL
Capacity	> 115 mg Lys	> 80mg BSA	> 105 mg Lys	> 80mg BSA	> 115 mg Lys	> 80mg BSA	> 105mg Lys	> 80mg BSA	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA
Flow Rate	50~300cm/h				50~300cm/h				50~300cm/h				50~300cm/h			
Max. Pressure	1.0MPa				0.8MPa				0.5MPa				0.5MPa			
pH Stability	2-12				2-12				2-12				2-12			
Chemical Stability	All commonly used buffers, 1M acetic acid, 1M sodium oxchloride, 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°C															
Storage	2~30°C, 20% ethanol															

Product	PM 70S				PM 70M				PM 70G				PM 70V			
Matrix	SP	Q	CM	DEAE	SP	Q	CM	DEAE	SP	Q	CM	DEAE	SP	Q	CM	DEAE
Function Group	PMMA															
Particle Size	70um															
Pore Size	100nm				100-150nm				150-300nm				300-400nm			
Ligand Density	0.18 meq/mL	0.12 meq/mL	0.21 meq/mL	0.15 meq/mL	0.15 meq/mL	0.12 meq/mL	0.22 meq/mL	0.11 meq/mL	0.11 meq/mL	0.12 meq/mL	0.10 meq/mL	0.09 meq/mL	0.11 meq/mL	0.12 meq/mL	0.10 meq/mL	0.09 meq/mL
Capacity	> 115 mg Lys	> 80mg BSA	> 105 mg Lys	> 80mg BSA	> 115mg Lys	> 80mg BSA	> 105mg Lys	> 80mg BSA	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA	> 70mg Lys	> 75mg BSA	> 70mg Lys	> 60mg BSA
Flow Rate	150~750cm/h				150~750cm/h				150~750cm/h				150~750cm/h			
Max. Pressure	1.0MPa				0.8MPa				0.5MPa				0.5MPa			
pH Stability	2-12				2-12				2-12				2-12			
Chemical Stability	All commonly used buffers, 1M acetic acid, 1M sodium oxchloride, 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°C															
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:

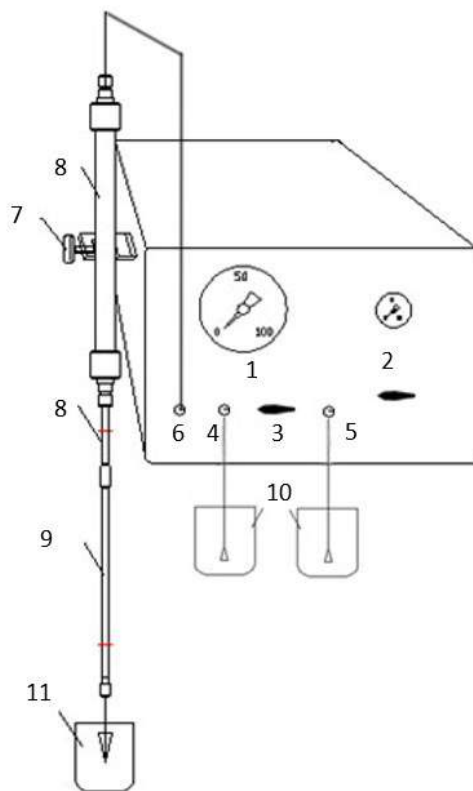
	Biovanix HPLC Column Packer
Column ID	2.0/3.0/4.0/4.6/10/20/30/50 mm
Output Pressure	15000 psi
Flow Rate	3.3L/min
Output Power	2hp
Air Cylinder	Double

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 recovery |
| 4 Inlet A: | |
| 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 steel	0.003 - 5	6000	3/32	.250	2LM
	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
	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 steel	0.01 - 10	3000	3/32	.500	3LM
	0.01 - 20	1500	1/8	.500	3SM
	0.04 - 80	750	1/4	.500	3HM
	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	3HI

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 Diameter (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
	Flow Rate* (mL/min)	Max. Pressure (psi)	Piston Diameter (in.)	Piston Stroke (in.)	Model
PEEK	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 use
- Reasonable price, high cost performance
- Reproducibility, excellent column efficiency and reliable results
- Zero dead volume structural connections



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

No.	Internal Diameter (mm)	Length (mm)	One-side Adjustable Type		Double-side Adjustable Type		Pressure (bar)
			Volume (mL)	Bed Height (cm)	Volume (mL)	Bed Height (cm)	
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	5 bar

No.	Internal Diameter (mm)	Length (mm)	One-side Adjustable Type		Double-side Adjustable Type	
			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, gel-permeation 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 diameter (mm)	Length (mm)	Max. Pressure (bar)	Silica Resin (40-60um) (g)	Sampling (g)	Flow Rate (mL/min)
HT10/110	10	110	40	Protective column, on-column 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 column, on-column 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 column, on-column 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

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
- Original country: China



PEEK Column

- Inner diameter: 2.1mm, 3.0mm, 4.0mm, 4.6mm
 - Length: 25mm, 30mm, 50mm, 100mm, 150mm
 - Material: PEEK
 - OEM is available
 - Original country: USA
-
- Inner diameter: 4.6mm
 - Length: 25mm, 30mm, 50mm, 100mm, 150mm
 - Material: PEEK
 - OEM is available
 - Original country: China



In-filter for HPLC column

Type:

- 10mm
- 20mm
- 30mm
- 50mm



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.
- ⊙ Firmware program updated online.
- ⊙ Power-off protection.
- ⊙ LAN connection, stable data transfer.
- ⊙ Alarm in time and according to set procedures, automatic pump stop.



Smart Technology

- ⊙ Time-programmed human-machine communication function;
- ⊙ Status detection, fault warning, online help.
- ⊙ 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
<p>Optional:</p> <p>Oscillometric refractive detector (Knauer/Shimadzu, software with digital-to-analogue converter)</p> <p>Evaporative light photodetector (Unimicro, software requires additional digital to analogue converter)</p> <p>Fluorescence detector (Shimadzu, software requires additional analogue-to-digital converter)</p> <p>Autosampler (optional Dutch Spark)</p> <p>C18 5um 4.6-250mm HPLC column</p>			
<p>Hardware:</p> <p>Analytical High Pressure Seals</p> <p>Analytical Low Pressure Seal Ring</p> <p>Double pump head analyzing finished plunger 3.175x42</p> <p>Check valve (Switzerland)</p> <p>Detector deuterium lamp</p>			

BV50 HPLC System			
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
<p>Options:</p> <p>Oscillometric refractive detector (Knauer/Shimadzu, software with digital-to-analogue converter)</p> <p>Injection loop (1ml/2ml/5ml/10ml)</p> <p>10-250mm HPLC column (including analytical flow cell, backpressure tube)</p> <p>20-250mm HPLC column</p> <p>30-250mm HPLC column</p>			
<p>Hardware:</p> <p>Seal ring 6.35</p> <p>Plunger 6.35 x 43</p> <p>Low pressure seal 6.35</p> <p>Detector deuterium lamp</p>			

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
<p>Optional:</p> <p>Injector pump: High-pressure pump 100ml / High-pressure pump 50ml</p> <p>Preparation manual injection valve</p> <p>Injection loop (1ml/2ml/5ml/10ml/20ml)</p> <p>20-250mm HPLC column</p> <p>30-250mm HPLC column</p> <p>50-250mm HPLC column</p>			
<p>Hardware:</p> <p>Seal ring 6.35</p> <p>Plunger 6.35 x 43</p> <p>Low pressure seal 6.35</p> <p>Detector deuterium lamp</p>			

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
<p>Optional:</p> <p>Injector pump: High-pressure pump 200ml / High-pressure pump 100ml / High-pressure pump 50ml</p> <p>Preparation manual injection valve</p> <p>Injection loop (1ml/2ml/5ml/10ml/20ml)</p> <p>20-250mm HPLC column</p> <p>30-250mm HPLC column</p> <p>50-250mm HPLC column</p> <p>DAC-50 System</p> <p>DAC-80 System</p>			
<p>Hardware:</p> <p>High pressure seal / Low pressure seal for 200mL pump</p> <p>200ml one-way valve</p> <p>Detector deuterium lamp</p>			

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 DAC-150 System			
Hardware: High pressure seal / Low pressure seal for 1000mL pumps 1000ml one-way valve Detector deuterium lamp			

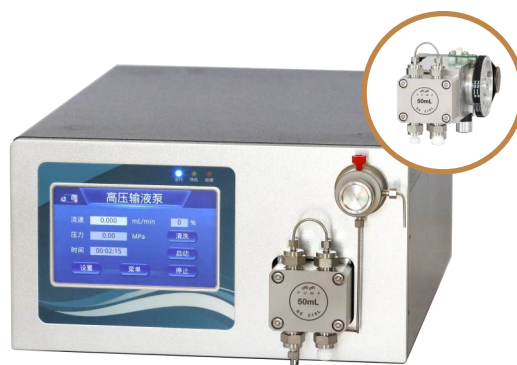
BV3000 HPLC System			
Isocratic System		Gradient System	
high-pressure pump, 3000ml pump head	1 set	high-pressure pump, 3000ml pump head	3 set
Preparative variable dual wavelength UV/ VIS detector	1 set	Preparative variable dual wavelength UV/VIS detector	1 set
Flow cell 3000ml	1 set	Flow cell 3000ml	1 set
Workstation (SuperDog)	1 set	Workstation (SuperDog)	1 set
Tool kits	1 set	Static Mixer	1set
		Tool kits	1set
<p>Optional:</p> <p>Injector pump: High-pressure pump 3000ml / High-pressure pump 1000ml / High-pressure pump 500ml</p> <p>Preparation manual injection valve</p> <p>DAC-200 System</p> <p>DAC-300 System</p>			
<p>Hardware:</p> <p>High pressure seal / Low pressure seal for 3000mL pumps</p> <p>3000ml one-way valve</p> <p>Detector deuterium lamp</p>			

Core Components



10-50ml

Pump



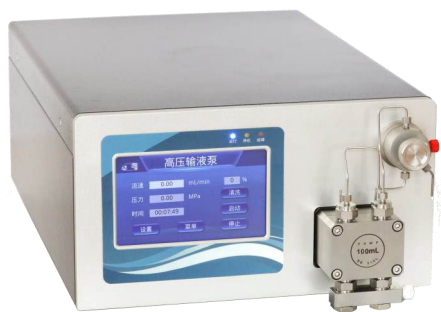
Type	PUP0010	PUP0010-C	PUP0010-PEEK	PUP0010-PTFE
Pump Material	Stainless Steel 316L	Hastelloy C	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	1/8"	1/8"	1/8"	1/8"
Outlet connector	1/16"	1/16"	1/16"	1/16"
Increment	0.001ml / min	0.001ml / 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	4Mpa
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



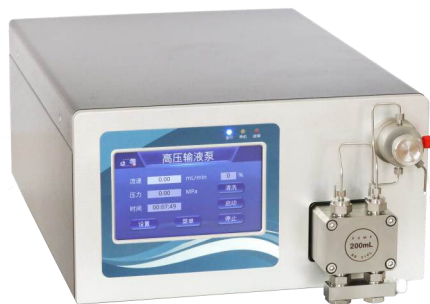
Type	PUP0050	PUP0050-C	PUP0050-PEEK	PUP0050-PTFE
Pump Material	Stainless Steel 316L	Hastelloy C	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	1/8"	1/8"	1/8"	1/8"
Outlet connector	1/16"	1/16"	1/16"	1/16"
Increment	0.001ml/min	0.001ml/min	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	30Mpa	30Mpa	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

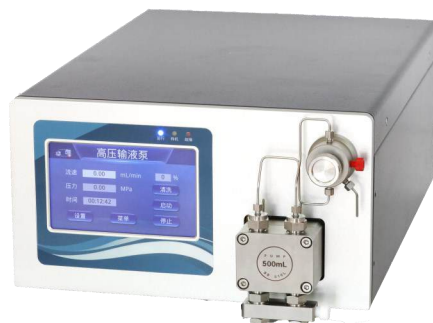
Pump



100mL



200mL



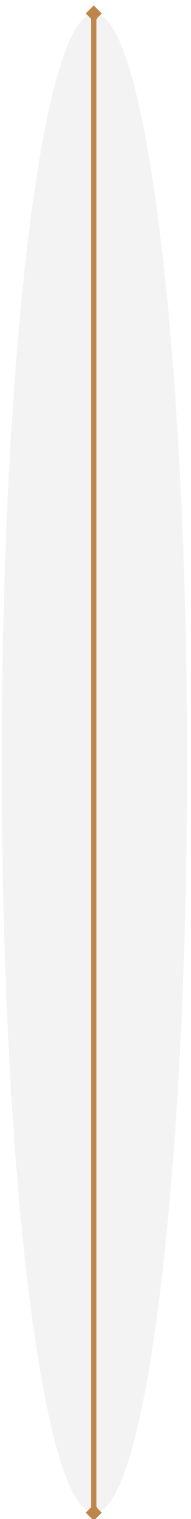
500mL

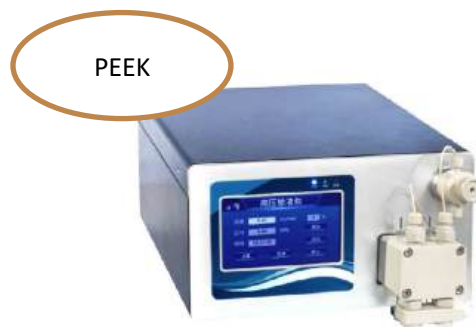
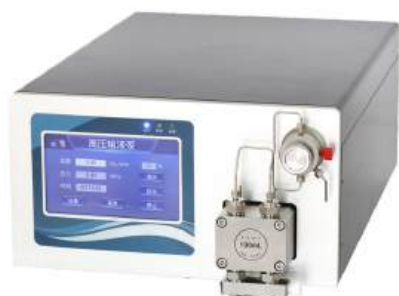


1000mL

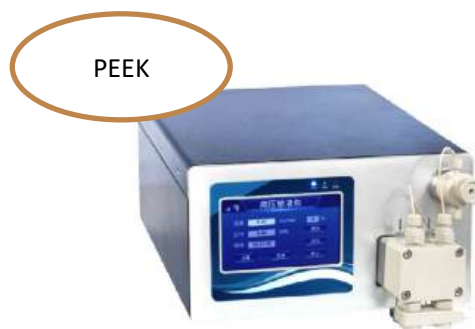
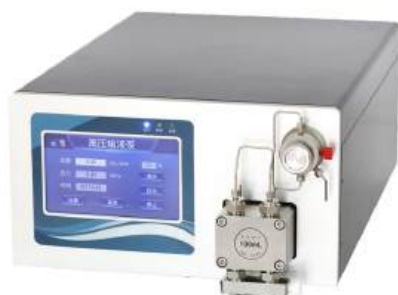


3000mL

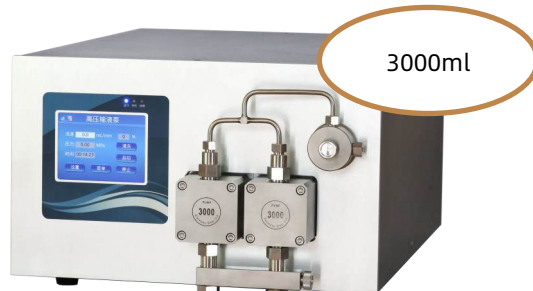
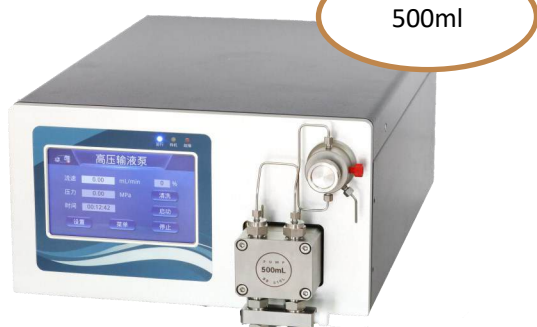




Type	PUP0100	PUP0100-PEEK	PUP0100-PTFE
Pump Material	Stainless Steel 316L	PEEK	PTFE
Mode	dual plunger series	dual plunger series	dual plunger series
Inlet Connector	4mm	4mm	4.76mm
Outlet connector	1/16"	1/16"	1/8"
Increment	0.01ml / min	0.01ml / min	0.01ml / min
Flow rate range	(0 ~ 99.99)mL/min	(0 ~ 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 interface, 3 communication interfaces, 4 communication protocols, can be switched
Display	5.0-inch Touch screen	5.0-inch Touch screen	LCD 2x8 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



Type	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	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 interface, 3 communication interfaces, 4 communication protocols, can be switched
Display	5.0-inch Touch screen	5.0-inch Touch screen	LCD 2x8 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



Type	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	10Mpa
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

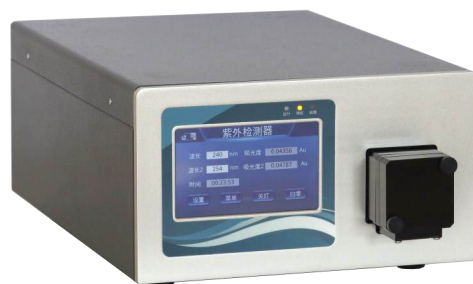
Variable Dual Wavelength UV/VIS Detector

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

- ◎ 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



Type	PUD0010	PUD0100 / PUD0200	PUD0500 / PUD1000	PUD3000
Flow Cell	Analysis flow cell, SST or PEEK 10mm optical range	Preparative flow cells, variable optical range in SST or PEEK		
Connector	1/16	1/16 / 1/8	1/8	6mm
Wavelength Range & Light Source	190-400nm deuterium lamp, 400-700nm tungsten lamp			
Bandwidth	8nm			
Wavelength Accuracy	±0.75nm		±1nm	
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

Type	FC200 Distillate Collector
Flow Ranges	0-3000 ml/min
Sample Channel	8 channels (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

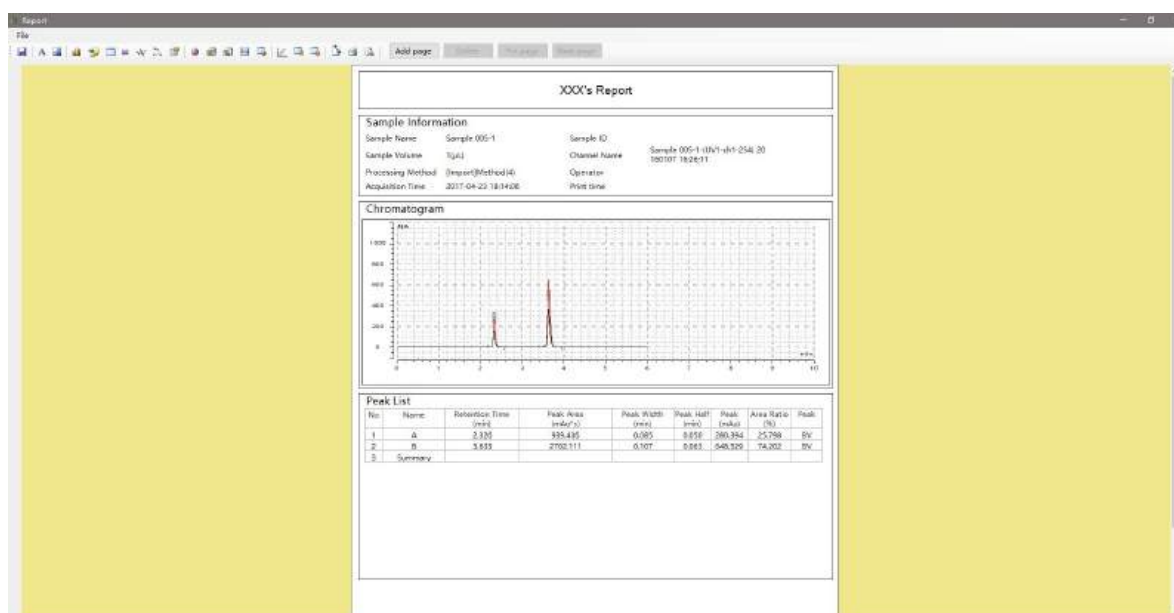
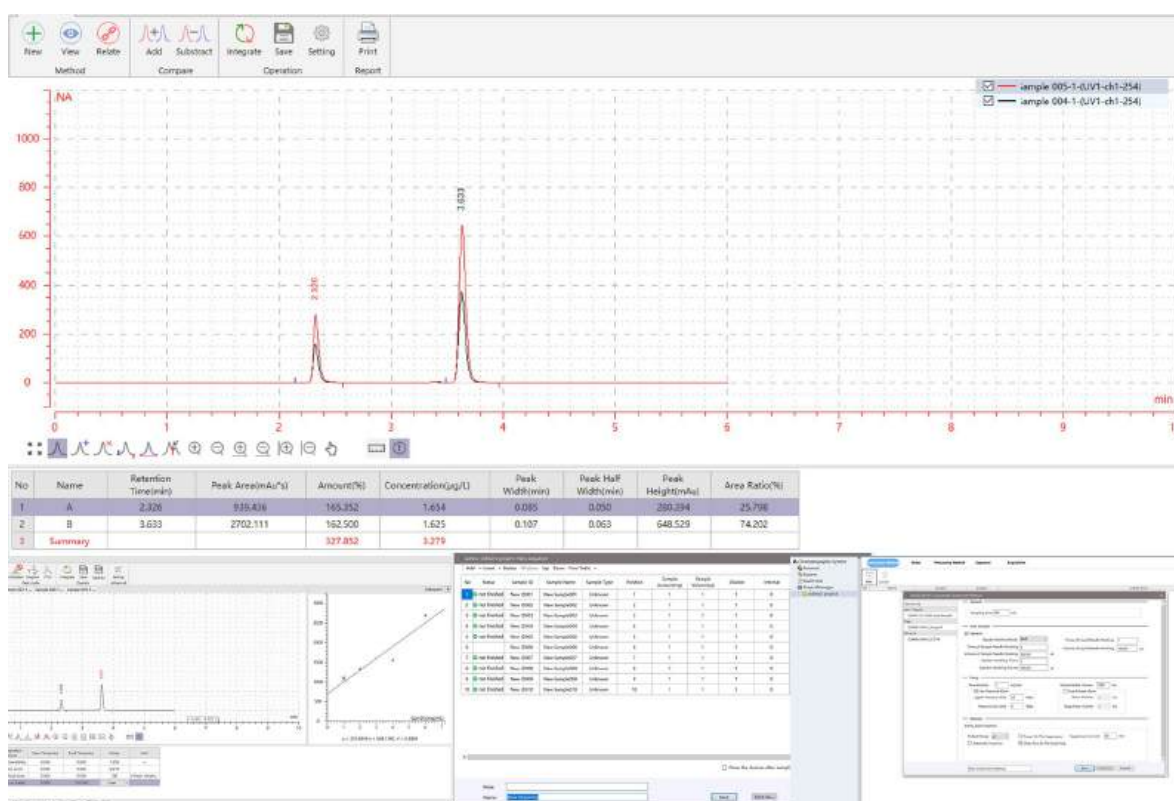


Type	FC100 Distillate Collector
Flow Ranges	0.001-200 ml/min
Collection Mode	Automatic/Semi-Automatic
Collection Condition	Time/Volume/Slope/Peak
Sample Volume (1 as standard)	120 positions (Φ15x150mm, 15mL glass test tube) 88 position (Φ17x120mm, 15mL centrifuge tube) 42 bits (Φ28x115mm, 50mL centrifuge 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 Diameter	50mm
Column Length	650mm
Work Pressure	10MPa
Liquid Contact Material	316L/PTFE
Sieve	316L\3um
Sealing Ring	316L (Japan)
Working Temperature	5-60 °C
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 °C
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 °C
Size	500*500*1825mm
Distribution Form	Forced Distribution



ID 150/650

Column Diameter	150mm
Column Length	650mm
Work Pressure	10MPa
Liquid Contact Material	316L/PTFE
Sieve	316L\3um
Sealing Ring	316L (Japan)
Working Temperature	5-60 °C
Size	610*680*2400mm
Distribution Form	Forced Distribution

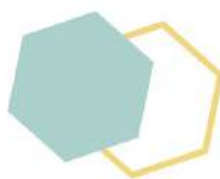
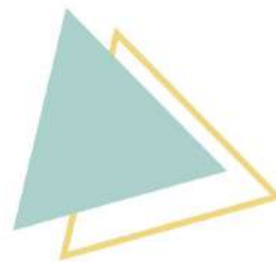
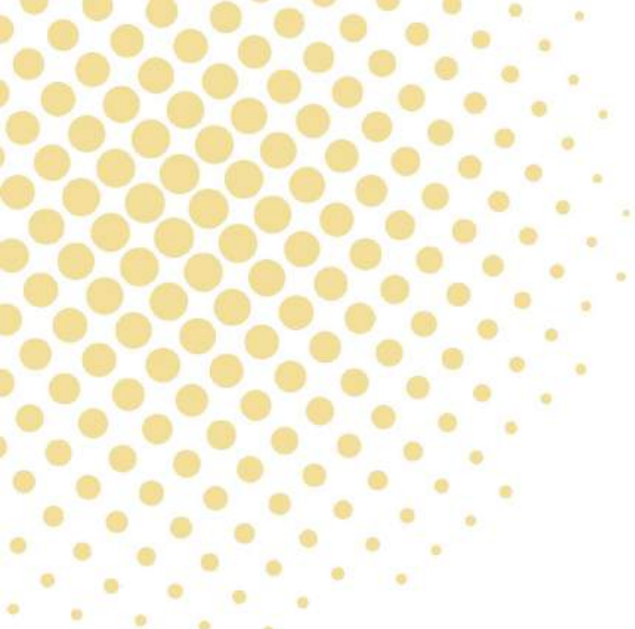
**ID 200/650**

Column Diameter	200mm
Column Length	650mm
Work Pressure	10MPa
Liquid Contact Material	316L/PTFE
Sieve	316L\3um
Sealing Ring	316L (Japan)
Working Temperature	5-60 °C
Size	710*830*2500mm
Distribution Form	Forced Distribution

**ID 300/650**

Column Diameter	300mm
Column Length	650mm
Work Pressure	10MPa
Liquid Contact Material	316L/PTFE
Sieve	316L\3um
Sealing Ring	316L (Japan)
Working Temperature	5-60 °C
Size	880*924*2770mm
Distribution Form	Forced Distribution





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