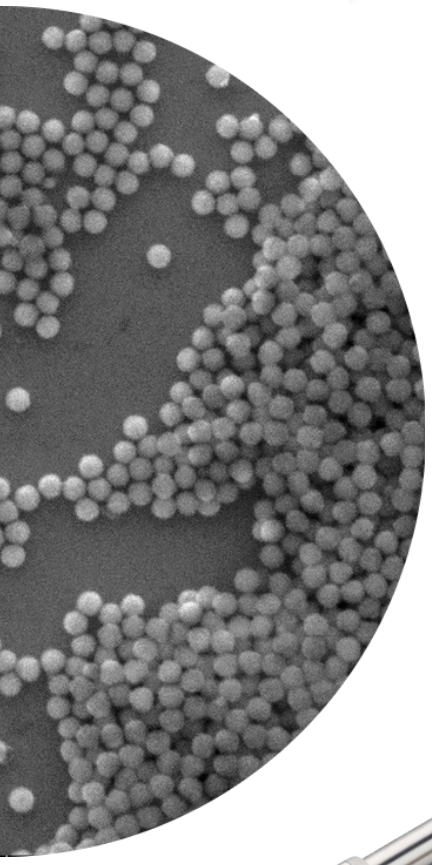
PUREPHASE SCIENTIFIC

ADVANCED SCIENTIFIC AND CHROMATOGRAPHY SOLUTION



HPLC COLUMNS

PURITY ACCURACY CONSISTENCY

VISION

To empower analytical laboratories with trusted, high-performance chromatography and scientific solutions that set benchmarks in precision, reliability, and regulatory compliance

PurePhase Scientific envisions becoming a preferred global partner for pharmaceutical, biotechnology, chemical, and research organizations by delivering carefully selected instruments, chromatography systems, columns, and laboratory consumables that support accurate analysis, consistent results, and long-term operational excellence.

Through technical expertise, responsive support, and a commitment to quality, we strive to build lasting partnerships that enhance laboratory productivity, safeguard data integrity, and advance analytical science from routine quality control to cutting-edge research.

CoreLux™

Superficial Porous / Core-Shell Particles

OmniPor™

Fully Porous Particles

Solidis™

Non-Porous Particles

Technology Overview

PurePhase OmniPor™ Fully Porous Particle Technology

Technology Overview

PurePhase OmniPor™ columns are packed with fully porous, spherical silica particles engineered to deliver maximum surface accessibility and uniform analyte interaction. The homogeneous pore network enables consistent mass transfer across the entire particle, ensuring robust separations, predictable retention, and excellent reproducibility across routine and validated methods.

Key Performance Attributes

- Fully porous spherical silica architecture
- Uniform pore size distribution for consistent interaction
- High surface area for enhanced loading and sensitivity
- Reliable retention and batch-to-batch reproducibility

Typical Applications

- Routine QC analysis
- Method development and validation
- Pharmacopeial and regulatory methods

USP / EP Classification

Compatible with standard USP stationary phase classifications including L1 (C18), L7, L10, L11, and others depending on bonded phase chemistry.

PurePhase CoreLux™ Superficially Porous (Core-Shell) Particle Technology

Technology Overview

PurePhase CoreLux™ columns utilize superficially porous particles featuring a solid, non-porous core surrounded by a thin porous shell. This advanced morphology significantly reduces diffusion distance, resulting in higher efficiency, narrower peak widths, and improved plate counts—all while operating at lower back pressure compared to fully porous particles.

Key Performance Attributes

- Solid core with controlled porous outer layer
- Reduced mass transfer resistance
- Minimized band broadening
- High efficiency and sharp peak shapes
- Fully compatible with UHPLC and high-speed workflows

Typical Applications

- High-resolution separations
- Fast analysis and productivity-driven labs
- UHPLC and high-efficiency method transfer

USP / EP Classification

Assigned the same USP L-classification as equivalent fully porous phases (e.g., L1 C18). Particle morphology is not restricted under USP or EP guidelines.

PurePhase Solidis™ Non-Porous Particle Technology

Technology Overview

PurePhase Solidis™ columns are packed with non-porous, solid particles designed to eliminate pore diffusion effects entirely. This structure enables rapid mass transfer, fast kinetic response, and highly controlled surface interactions, making Solidis™ ideal for specialized and selective chromatographic applications.

Key Performance Attributes

- Non-porous solid particle matrix
- Minimal diffusion-related band spreading
- Rapid equilibration and fast kinetics
- Precisely controlled surface chemistry

Typical Applications

- Specialty and niche separations
- Ion-exchange chromatography
- Affinity and size-based methodologies

USP / EP Classification

Non-porous packings are acceptable under USP and EP where method suitability and performance criteria are appropriately demonstrated.

PurePhase Particle Technologies
Choose the Right Performance Architecture

Three Technologies. One Purpose: Superior Separation.

	OmniPor™	CoreLux™	Solidis™
Particle Type	Fully Porous	Superficially Porous (Core-Shell)	Non-Porous
Structure	Fully porous spherical silica	Solid core + porous shell	Solid particle
Key Benefit	Robust & reproducible	High efficiency, fast analysis	Rapid kinetics & control
Efficiency	High	Very High	Application-specific
Back Pressure	Moderate	Lower at high efficiency	Low
USP / EP	L-class as per phase (e.g. L1)	Same L-class as FPP	Suitable where validated
Best For	Routine QC & validated methods	UHPLC & high-resolution work	Specialized separations

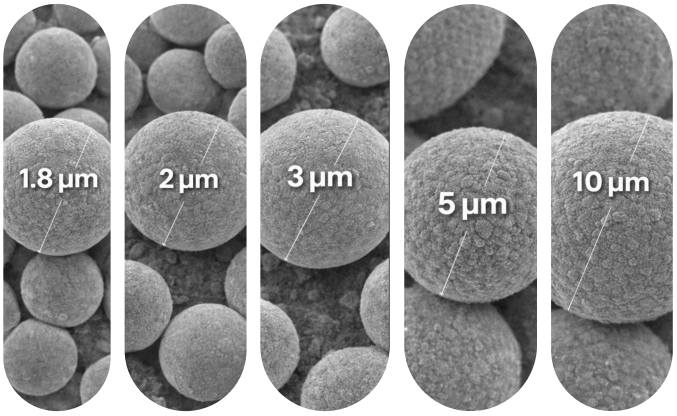
Quick Selection Guide

Choose your right pick as per your application

OmniPor™
Reliable. Reproducible. Regulatory-friendly.
→ Ideal for routine QC, pharmacopeial methods, method validation

CoreLux™
Faster. Sharper. More efficient.
→ Ideal for UHPLC, high throughput, method transfer

Solidis™
Controlled. Selective. Specialized.
→ Ideal for ion-exchange, affinity & niche applications



The images displays spherical silica (SiO_2) particles, perfectly round shape and Size Variance: The composite is divided into sections illustrating five specific diameters: 1.8 µm, 2 µm, 3 µm, 5 µm, and 10 µm

PurePhase Particle Technologies — Designed for Confidence

Each PurePhase particle platform is engineered to meet modern regulatory expectations, pharmacopeial compatibility, and real-world laboratory demands, offering scientists the flexibility to select the optimal technology without compromising compliance or performance.

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High-Pressure Liquid Chromatography Columns

The PurePhase High Pressure Liquid Chromatography column series **OmniPor™, CoreLux™** and **Solidis™** features a high-quality silica gel surface bonded phase with diverse configurations, narrow particle size distribution, and uniform pore size distribution. It demonstrates excellent mechanical stability. Utilizing unique bonding and sealing technologies, the column delivers optimal chromatographic peak profiles. These HPLC columns provide symmetrical peak shapes and enhanced separation efficiency with precise quantification capabilities for acidic, neutral, and alkaline compounds across a broad pH range (0.8-14). Rigorous batch validation data ensures consistent performance between batches.

Bonded phase	Particle Size (µm)	Aperture (A)	Specific surface area (m2/g)	Carbon loading %	Enclosure	pH stability
OmniPor™-C18	1.8,2,3,5,10µm	120/300	320 m2/g	17	Yes	1.5-10.0
Solidis™-C18	3, 5, 10µm	120	320 m2/g	18	Yes	1.0-12.0
OmniPor™ AC-C18	3, 5, 10 µm	120	310 m2/g	18	Yes	0.8-10.0
OmniPor™ AQ-C18	3, 5, 10 µm	120	320 m2/g	14	Yes	1.5-10.0
OmniPor™ AQ-C18 (2)	3, 5, 10 µm	100	320 m2/g	13.5	Yes	1.5-10.0
OmniPor™-C8	3, 5, 10 µm	120	320 m2/g	12	Yes	1.5-10.0
OmniPor™-Phenyl	3, 5, 10 µm	100	330m2/g	12	Yes	1.5-10.0
OmniPor™-PFP Pentachlorophenyl column	2, 3, 5µm	100	330m2/g	C%:13 F:7%	Yes	1.5-10.0
OmniPor™ Phenyl-Ether Polar ether phenyl column	5 µm	100	330m2/g	12	Yes	1.5-10.0
OmniPor™-CN	3, 5, 10 µm	100	330m2/g	6	No	2.0-8.0
OmniPor™-Diol	3, 5, 10 µm	100	330m2/g	2.5	No	2.0-8.0
OmniPor™-NH2	3, 5, 10 µm	120	320 m2/g	6	No	2.0-8.0
OmniPor™-NH2 (2)	3, 5, 10 µm	100	320 m2/g	6	No	2.0-8.0
OmniPor™ HILIC-Amide	2, 3, 5 µm	120	320 m2/g	7	No	2.0-8.0
OmniPor™-SiO2	3, 5, 10 µm	120	320 m2/g	N/A	No	2.0-8.0
OmniPor™-SCX	3, 5, 10 µm	120	320 m2/g	5.5	No	1.5-10.0
OmniPor™-C30	3, 5um	100	330 m2/g	18	Yes	1.5-10.0
OmniPor™ -C4	3, 5µm	150/300	190/150m2/g	4.4	Yes	1.5-10.0
OmniPor™ Sugar-H	5, 8µm	N/A	N/A	N/A	N/A	1.0-3.0
OmniPor™ Sugar-Ca	5, 8µm	N/A	N/A	N/A	N/A	7.0-12
OmniPor™ Sugar-NA Column for sulfonate detection	5, 8µm	N/A	N/A	N/A	N/A	7.0-10
OmniPor™ GPC-GY Glycerol detection column	5, 10µm	100/300A	N/A	N/A	N/A	1.0-14

Special Chromatography Column

The following specialized chromatography columns are purpose-designed to address challenging analytes, complex herbal matrices, and method-specific separation problems commonly encountered in pharmaceutical, traditional medicine, and analytical research laboratories. Each column is engineered with selective stationary phase chemistry and optimized surface treatment to deliver enhanced resolution, reduced interference, improved peak shape, and reliable reproducibility. From dedicated herbal compound analysis and amine-focused separations to ghost peak elimination and anti-corrosion performance, these columns provide targeted solutions where conventional columns fall short, enabling accurate, robust, and compliant analytical results.

Part Number	Description	Specifications	Aperture (A)
PS-FPA1546250	Propylamidophyllin, a special column for motherwort	5μm, 4.6×250mm	120A
PS-FPA1546150	Propylamidophyllin, a special column for motherwort	5μm, 4.6×150mm	120A
PS-FPE1546250	Pseudoephedrine column Phenyl-Ether	5μm, 4.6×250mm	120A
PS-FHS13521150	Hilic-S column for cyclopropanamine	3.5um, 2.1*150mm	120A
PS-FAA1546250	Amino acid-specific column AAA	5μm, 4.6×250mm	120A
PS-F18P546250	PS-C18, a special anti-corrosion agent column	5μm, 4.6×250mm	120A
PS- F18P546150	PS-C18, a special anti-corrosion agent column	5μm, 4.6×150mm	120A
PS-FRZP1546250	Panax saponins dedicated column RSZG-plus (with protective column)	5μm, 4.6×250mm	120A
FRZP154610-2	Panax ginsenoside dedicated column RSZG-plus column core	5μm, 4.6×10mm 2pk	120A
GT4650	GhostTrap™™ column (A trap / guard column used to eliminate ghost peaks and background interference in HPLC/LC systems by capturing trace contaminants coming from the mobile phase, solvents, tubing, or system components before they reach the analytical column)	4.6×50mm	
GT4050	GhostTrap™™ column	4.0×50mm	
GT3050	GhostTrap™™ column	3.0×50mm	
GT2150	GhostTrap™™ column	2.1×50mm	
GT2133	GhostTrap™™ column	2.1×33mm	

Column Selection Guide

USP number	Model	Parameter	Characteristics	Remarks
L1	OmniPor™ - C18	ΦA:120, C%:17 m2/g:320 pH：1.5-10	The single-point bonded octadecylsilane bonded silica gel chromatography column is completely sealed, which has a strong retention effect on hydrophobic compounds, excellent chromatographic performance, good selectivity, good reproducibility, low column loss, strong water resistance, good universality and wide application.	
L1	Solidis™ -C18	ΦA:120 ,C%:18 m2/g:320 pH：1.0-12	Multilayer bonded octadecylsilane bonded silica gel chromatography column, special endowing, stronger chemical stability, higher stereoselectivity, good universality, suitable for the separation of structural isomers.	
L1	OmniPor™ -300C18	ΦA:300 ,C%:8 m2/g:90 pH：2.0-10	The 18-sodium silane bonded macroporous silica gel chromatography column is completely blocked, with excellent chromatographic performance, good selectivity and reproducibility. It is suitable for compounds with large molecular weights, such as polypeptides, insulin and small proteins	
L1	OmniPor™ AQ-C18	ΦA:120 ,C%:14 m2/g:320 pH：1.5-10	Water-resistant octadecylsilane bonded silica gel chromatography column, special end treatment can tolerate 100% aqueous phase, good universality and suitable for the separation of polar substances	
L1	OmniPor™ AQ-C18(2)	ΦA:100C%:13.5 m2/g:340 pH：1.5-10	The water-resistant octadecylsilane bonded silica gel column is specially sealed to withstand 100% aqueous phase. The CN group is embedded as a modifying group to have a special selectivity for polar and non-polar separation.	
L1	OmniPor™ LC-C18	ΦA:120 ,C%:18 m2/g:310 pH：1.0-10	The single-point bonded octadecylsilane bonded silica gel chromatography column has side chain end, which has strong retention effect on hydrophobic compounds, and can be used stably under acidic conditions. It has excellent chromatographic performance, good selectivity, good reproducibility, low column loss, strong water resistance, good universality and wide application.	
L7	OmniPor™ - C8	ΦA:120 ,C%:12 m2/g:320 pH：1.5-10	The octylsilane bonded silica gel chromatography column is completely sealed, with stable chromatographic performance, high column efficiency, good peak symmetry and low column loss. It is suitable for the separation of substances with moderate or strong hydrophobicity, and has good stability for polar and hydrophilic compounds under high aqueous phase conditions.	
L26	OmniPor™ - C4	ΦA:150 ,C%:4.5 m2/g:190 pH：1.5-10	Butylsilane bonded silica gel chromatography column, completely sealed chromatography performance is excellent, high column efficiency, good peak symmetry, low column loss for the separation of highly hydrophobic substances	
L26	OmniPor™ -300C4	ΦA:300 ,C%:2.5 m2/g:150 pH：1.5-10	Butylsilane bonded silica gel chromatography column, completely sealed chromatography performance is excellent, high column efficiency, good peak symmetry, low column loss used for the separation of highly hydrophobic substances 300A pore size suitable for the separation of large molecular weight compounds, such as peptides and proteins	

L62	OmniPor™ - C30	ΦA:100 ,C%:18 m2/g:330 pH：1.5-10：	The 30-tert-amylsilane bonded silica gel chromatography column is completely blocked and has excellent stereoselectivity. The long chain has excellent effects of lipophilicity and hydrophobicity, which can also be used for the separation of fat-soluble substances such as vitamins and has good selectivity for the separation of structural isomers.	
L11	OmniPor™ - Phenyl	ΦA:100 ,C%:12 m2/g:330 pH：1.5-10	Benzyl bonded silica gel chromatography column, completely sealed, has a strong retention capacity for aromatic compounds and is suitable for the separation of aromatic compounds	
Normal Phase	OmniPor™ HILIC hydrophilic column	Silica gel column for hydrophilic interaction chromatography, suitable for separation of highly polar compounds	Offers excellent retention and selectivity for polar analytes, making it ideal for metabolomics and pharmaceutical applications	
L3	OmniPor™ - SIO2	ΦA:120 ,C%:N/A m2/g:320 pH：2.0-8.0	High purity pure silica gel chromatography column, excellent chromatographic performance, high column efficiency, good peak symmetry, used for the separation of fat soluble steroid compounds.	
L20	OmniPor™ - DIOL	ΦA:100 ,C%:5.2 m2/g:340 pH：2.0-8.0	The alcohyl bonded silica gel chromatography column has good column stability and column life, polar bonded phase, moderate positive phase retention ability and unique selectivity	
L10	OmniPor™ - CN	ΦA:120 ,C%:6 m2/g:330 pH：2.0-8.0	Cyanogen-bonded silica gel chromatography column has weak polarity and various retention mechanisms with dipole-dipole interaction and hydrophobicity, which has unique selectivity for polar compounds	
L8	OmniPor™ - NH2	ΦA:120 ,C%:6 m2/g:320 pH：2.0-8.0	Aminopropyl bonded silica gel chromatography column, multiple retention mechanism, can be used in normal phase, HILIC mode and ion exchange separation mode for the separation of hydrophilic and polar compounds such as carbohydrates and monosaccharides, oligosaccharides and sugar alcohols	
L68	OmniPor™ HILIC-Amide	ΦA:120 ,C%:7 m2/g:320 pH：2.0-8.0	Acrylamide bonded silica gel chromatography column has strong hydrogen bond and strong selectivity for polar compounds. It is suitable for the separation of small molecular polar compounds and oligosaccharides	
L20	OmniPor™ HILIC-DIOL	ΦA:100 ,C%:5.5 m2/g:340 pH：2.0-8.0	Alcohol bonded silica gel chromatography column, good column stability and column life, polar bonded phase, moderate positive phase retention ability, with unique selectivity, can be used in reverse phase system under Hilic mode, suitable for the separation of hydrophilic and polar compounds.	
L3	OmniPor™ HILIC-SIO2	ΦA:120 ,C%:N/A m2/g:320 pH：2.0-8.0	The high purity bare silica gel chromatography column has excellent chromatographic performance, high column efficiency and good peak symmetry. Under Hilic mode, the polar compounds can be well retained and separated with good selectivity.	
Ion column	Silica gel matrix, polymer matrix ion exchange column, volume exclusion	Suitable for the separation of inorganic ions, organic acids, amino acids, and nucleotides	Provides high selectivity and capacity for charged analytes, excellent for ion chromatography applications in environmental and pharmaceutical analysis	

L9	OmniPor™ - SCX	ΦA:120 ,C%:5.5 m2/g:320 pH：2.0-8.0	Strong cationic sulfonate silane bonded silica gel has high loading and low column loss, which is suitable for the analysis of cationic and alkaline compounds.	
L17	OmniPor™ Sugar-H	Particle size 5um, 8um Crosslinking degree: 8%	Low crosslinking polystyrene/dienebenzene, H-type cation exchange analytical column, high resolution, good chemical stability, compatible with 100% acidic aqueous phase, stable batch reproducibility, suitable for the analysis of organic acids and mixed alcohols, is also a dedicated column for ribavirin	Avoid organic solvents
L19	OmniPor™ Sugar-Ca	Particle size 5um, 8um Crosslinking degree: 8%	Low crosslinking degree polystyrene/dienebenzene Ca-type cation exchange analytical column has excellent resolution, excellent chemical stability, compatibility with 100% aqueous phase, good batch reproducibility, suitable for the separation of monosaccharide, disaccharide, trisaccharide, tetrasaccharide and sugar alcohol, and also for mannitol analysis	Avoid organic solvents
L58	OmniPor™ Sugar-Na	Particle size 6um, 8um Crosslinking degree: 8%	Low crosslinking degree polystyrene/dienebenzene Na type cation exchange analytical column has excellent resolution, excellent chemical stability, compatibility with 100% aqueous phase, good batch reproducibility, and is suitable for low polymer analysis	Avoid organic solvents
	OmniPor™ GPC-GY	Particle size 5um Crosslinking degree: 10%	The highly cross-linked polystyrene/divinylbenzene porous particles exhibit exceptional chemical and physical stability. This innovation overcomes the limitations of silica gel fillers with their narrow pH-range applicability. Remarkably, the column efficiency remains nearly unchanged when switching organic solvents. These chromatographic materials are particularly effective for separating and purifying proteins, peptides, oligonucleotides, antibiotics, and small-molecule pharmaceuticals.	

OmniPor™

Reliable. Reproducible. Regulatory-friendly.

→ Ideal for routine QC, pharmacopeial methods, method validation

OmniPor™-C18 chromatography column

General analytical column for reverse chromatography

The OmniPor™-C18 chromatography column utilizes ultra-high-purity all-porous spherical silica gel as the chromatographic matrix, bonded to the surface through a single-functional group high-density bonding technique. The high-purity silica gel effectively eliminates tailing caused by chelation between compounds and metal ions in the matrix, enhancing peak symmetry for polar compounds. The unique bonding process and stable column packing minimize inter-column variations, ensuring excellent reproducibility and quality stability. A complete sealing process reduces residual silanol contact opportunities, eliminating secondary retention effects from residual silanol and maintaining optimal peak
symmetry — particularly effective for separating polar and basic compounds. The column employs a pH-range (1.5-10) mobile phase to accommodate diverse experimental conditions.

OmniPor™-C18 chromatography column parameters:

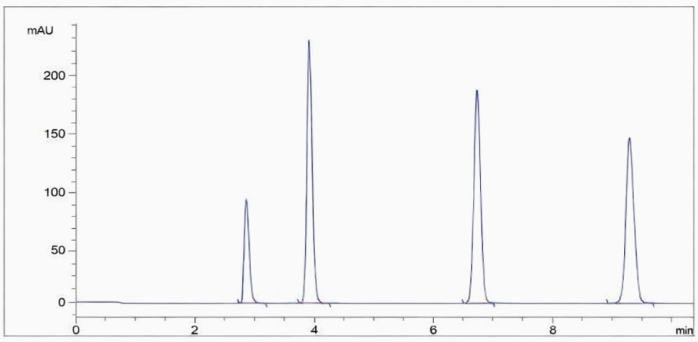
Bonded phase	C18（USP L1）
Grain size	1.8um 、2um、3um、 5μm 、10μm
Aperture	120Å，300Å
Surface Area	320m2/g(120Å)，90m2/g(300Å)
Carbon loading	17%(120Å)，8%(300Å)
The seal	Double-sealed
PH Value stability	1.5-10.0

The OmniPor™-C18 chromatography column stands as one of the most versatile C18 analytical columns available in the market, effectively replacing Waters Symmetry C18, Agilent Zorbax XDB C18, Phenomenex Luna C18, Supelcosil LC-18-DB, YMC ODS-A, Alltima C18, GLInertsil ODS-2, and UltimateXB-C18 columns. Featuring exceptional theoretical plate numbers and peak capacity, this column is particularly suited for analyzing complex herbal compounds in traditional Indian medicine, delivering superior separation performance.

Example of chromatography column test results

Column Information　　Test Conditions

Catalog No.:	PS1846250-5	Mobile Phase:	75% MeOH/25% Water
Serial No.:	HDC2809	Flow Rate:	1 ml/min
Stationary Phase:	WD-C18	Temperature:	Ambient
Column Length:	250mm	Detector:	254 nm
Column ID:	4.6mm	Injection Volume:	20ul
Particle size:	5 μm 120A	Sample:	Toluene



Project	Test Result
RT (min)	9.243
N	24166
Tf	1.02
CP (bar)	136

Solidis™- C18 chromatography column

The Solidis™- C18 chromatography column is a multi-layer bonded octadecylsilane bonded silica gel column. Featuring special end-group modification, it demonstrates enhanced chemical stability and superior stereoselectivity with broad applicability. This column excels in separating structural isomers while maintaining high stereoselectivity and exceptional versatility. Its stable performance under acidic and alkaline conditions makes it widely applicable across pharmaceuticals, food processing, environmental monitoring, and chemical engineering fields.

Solidis™- C18 chromatography column parameters:

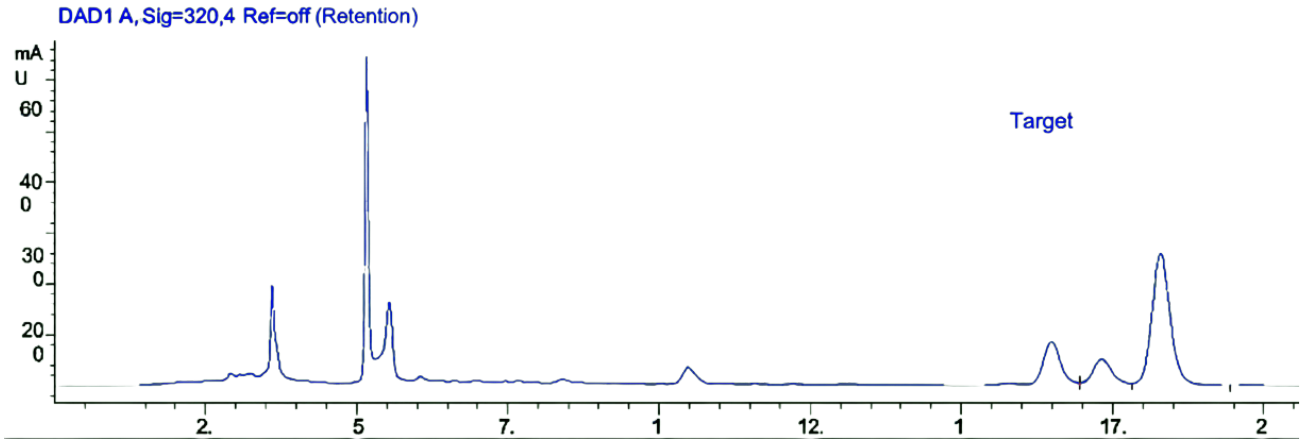
Bonded phase	Solidis™- C18 (USP L1)
Grain size	3um, 5μm, 10μm
Aperture	120Å
Surface Area	310m2/g
Carbon loading	0.18
The seal	Special sealing
PH Value stability	1.0-12.0

Solidis™

Controlled. Selective. Specialized.
→ Ideal for ion-exchange, affinity & niche applications

Application case：

Chromatography column: Solidis™- C18 4.6*250mm 5μm
Mobile phase: acetonitrile-water = 19:81
Injection volume: 30ul,
wavelength: 320nm
column temperature: 25 degrees
Flow rate: 0.7ml/min



OmniPor™ AQ-C18 chromatography column

Conventional C18 chromatography columns are widely used for both non-polar and polar compounds. For analytes with extremely high polarity, the solubility of these analytes necessitates the use of a mobile phase containing less than 5% organic content and a high water ratio to achieve retention on the column. Under such conditions, the retention time of analytes on standard C18 columns often decreases over time, commonly referred to as "hydrophobic phase collapse." This phenomenon is generally attributed to the collapse of the bonded phase. When flowing through the column with 100% water as the mobile phase, carbon chains gradually collapse due to intermolecular interactions, resulting in weakened interactions between the stationary and mobile phases. This is also believed to stem from the incompatibility between the mobile phase and hydrophobic surfaces, where high-moisture mobile phases are repelled from the micropores of silica gel. The repulsion accelerates when the high-pressure pump is stopped and pressure decreases, leading to a rapid reduction in pore volume and swift peak resolution. OmniPor™ AQ-C18is a hydrophilic column designed for 100% water-phase applications. Its packing material features moderate surface coverage and complete sealing, demonstrating excellent compatibility with high-moisture mobile phases while maintaining operational stability and extended service life under such conditions.

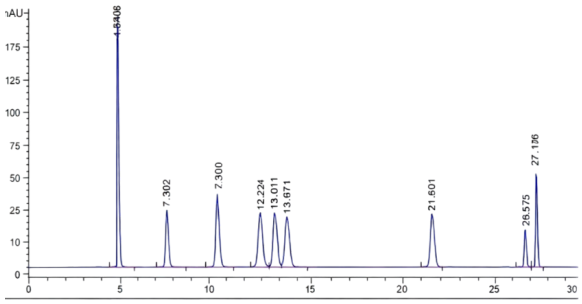
OmniPor™ AQ-C18 chromatography column parameters:

Bonded phase	AQ-C18（USP L1）
Grain size	3um、5μm
Aperture	120Å
Surface Area	320m2/g
Carbon loading	0.14
The seal	stop end
PH Value stability	1.5-10.0

Sulfonamides Analysis

Column: OmniPor™ AQ-C18 4.6 × 250mm 5μm
Detection Wavelength: 265nm **Flow Rate:** 1.0 ml/min
Injection Volume: 2μl

Time (min)	Solvent A (%)	Solvent B (%)
0	82	18
15	82	18
30	45	55



Retention Time [min]		Area (mAUs) mAU * s	Plates (N)	Tailing Factor	Resolution	
4.588	–	1174.73840	202030.03	1.68	4.15	4.15
6.999	–	525.53820	40992.17	1.46	1.46	4.18
7.329	–	642.53240	154541	1.53	1.99	1.99
9.952	–	1159.59840	24441.42	1.58	4.15	4.15
12.271	–	639.62199	20198.16	1.37	6.16	1.37
13.071	–	405.95509	18570.1	1.49	1.57	1.64
21.601	–	599.68956	41517.02	1.42	10.03	5.66
25.675	–	255888.29	11416.65	1.20	5.66	1.03
27.106	–	86406.10710	30939.10	1.47	4.05	1.58
27.106	–	86406.10710	30939.10	1.47	4.05	1.35

OmniPor™ AQ-C18 (2) chromatography column

Reverse-phase columnstypically exhibit limited separation efficiency for stronglypolar and stronglybasic substances. By incorporating polar functional groups into the carbon chain of the stationary phase, this design enhances selectivity for such compounds. The polar groups effectively shield silanol groups on the silica gel surface, significantly improving peak shapes and reducing tailing during alkaline substance analysis. Additionally, the presence of polar groups in the carbon chain improves the stationary phase's hydrophilic wettability. This prevents phase collapse when using high-moisture mobile phases exceeding 95% water content.Furthermore, the system selectively retains polar compounds while decreasing the retention of non-polar substances, effectively enhancing the separation of polar compounds and reducing non-polar substance retention.

OmniPor™ AQ-C18（2） chromatography column

The liquid chromatography stationary phase with polar functional groupsembedded in the alkyl chain is a modified C18 column. One of the biggest advantages of this column is that it reduces the secondary interaction between the free silanolgroups on the surface of the fillerand the basicanalyte, thus improvingthe shape obtainedby analyzing the basic compounds.

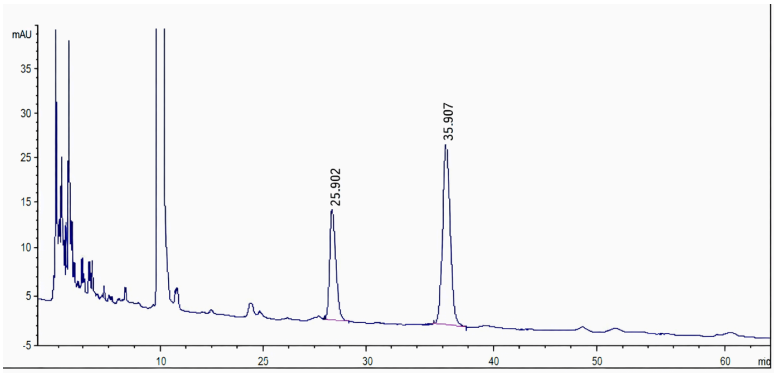
- A water columnwith stronger resistance to phase collapsethan conventional AQ columns. The insertion of polar groups enables the alkyl stationary phase to be solvatedand wetted by the aqueoussolvent even when the organic phase proportion in the mobile phase is very low (even 100% aqueous mobile phase), without phase collapse
- The polar group is embeddedin the surface of silica gel, which is very effective in shielding the silanol group and does not easily cause the tailingof the peak shape. Therefore, the product has a good peak shape when measuring both acidic and alkaline substances.
- Compared with the pure alkyl stationary phase of ordinary AQ pure water column, the selectivity will be different because of the inclusion of polar groups. Especially when measuring polar substances and non-polar substances, the conventional column separation retentionis not good, so the modified AQ-C18 (2) column can be adjusted to improve the selectivity
- Similar samples can be separatedquickly on the same chromatography column

OmniPor™ AQ-C18（2） chromatography column parameters:

One of the biggest advantages of this column is that it reduces the secondary interaction between the free silanol groups on the surface of the filler and the basic analyte, thus improving the shape obtained by analyzing the basic compounds.

Application case：

Bonded phase	AQ-C18（2）(USP L1)
Grain size	3um，5μm，10um
Aperture	100Å
Surface Area	330m2/g
Carbon loading	0.135
The seal	stop end
pH stability	1.5-10.0



Seq.	Retention Time	Peak Area	Resolution	Theoretical Plates
1	25.902	447.16223	/	11308
2	35.907	907.72589	8.86	12588

OmniPor™ AC-C18 chromatography column

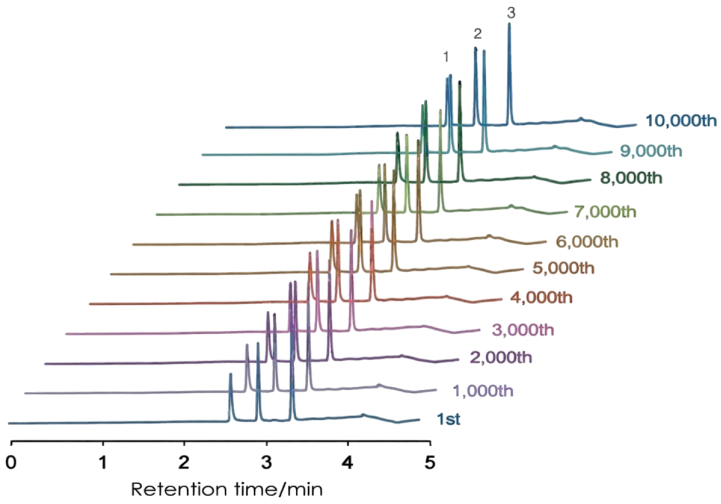
The OmniPor™ AC-C18 chromatography column is specifically designed for separating polar compounds under extremely low pH conditions. Featuring surface-modified sterically hindered protecting groups, this column demonstrates excellent chemical stability at low pH levels while resisting hydrolysis. Its specially treated end caps effectively prevent tailing caused by alkaline compound interference, resulting in superior separation performance, enhanced stability, and extended service life when operating with acidic mobile phases.

The OmniPor™ AC-C18 product also has the following features:

- Allowing use at high temperatures and low pH (down to 0.8), with the longest life and best reproducibility;
- Sealing: Avoids the problem of tailing caused by the influence of alkaline compounds due to unsealing and the change of C18 selectivity, so that AC-C18 selectivity and reproducibility can remain unchanged for a long time under acidic conditions;
- Superior performance: excellent peak shape at low pH conditions and different selectivity from C18;
- Strong polarity and high specific surface area: due to the tail, it is very suitable for the separation of polar compounds and has a strong retention for polar compounds;

OmniPor™ AC-C18 chromatography column parameters: Chromatography column stability determination (continuous testing and validation pH2.0) OmniPor™ AC-C18 chromatography column parameters: Chromatography column stability determination (continuous testing and validation pH2.0)

bonded phase	AC-C18（USP L1）
Grain size	3um、5μm
Aperture	120Å
Surface Area	320m2/g
Carbon loading	0.17
The seal	stop end
PH Value stability	0.80-8.0

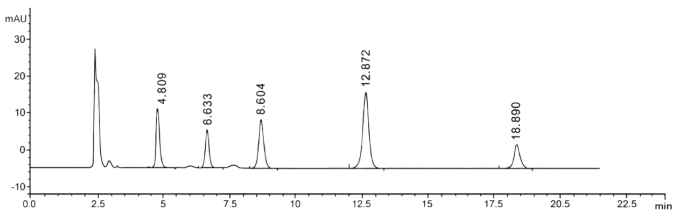


OmniPor™-C8 chromatography column

The OmniPor™-C8 column demonstrates lower retention capacity than C18, which alters its reversed-phase retention characteristics and selectivity compared to conventional C18. With shorter carbon chains than C18, it reduces steric hindrance and forms stable interactions with silica gel surfaces, while also minimizing silanol active sites. These advantages make OmniPor™-C8 particularly suitable for separating hydrophobic compounds and LC/MS, requiring significantly less analysis time than C18-based columns.

Application case：

bonded phase	C8（USP L7）
Grain size	3um、5μm
Aperture	120Å
Surface Area	320m2/g
Carbon loading	0.12
The seal	stop end
PH Value stability	1.5-10



ID	Retention Time [min]	Peak Area [mAU*s]	Peak Height [mAU]	Symmetry Factor	Peak Width [min]	Theoretical Plates	Resolution	Selectivity
1	4.809	140.82941	13.72892	0.95	0.1533	5452	7.07	1.38
2	6.633	72.62080	7.20955	0.96	0.1500	10834	7.07	1.30
3	8.604	164.47556	11.79901	0.97	0.2117	9152	6.40	1.30
4	12.872	287.92972	15.97558	1.03	0.2733	12289	10.34	1.50
5	18.890	108.91444	4.13162	1.09	0.4033	12152	10.45	1.47

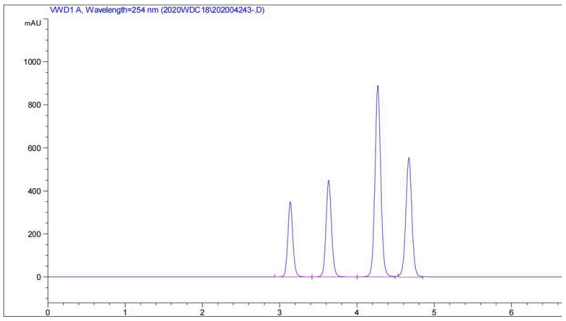
OmniPor™-C4 chromatography column

OmniPor™-C4 chromatography column-A liquid phase analytical column for the separation of biological samples
Ø It has a strong retention capacity for hydrophobic and polar compounds. The unique bonding technology has a high coverage of bonding phase
Ø The unique fully double-sealed tail technology minimizes the effect of residual silanol groups and provides good peak shape for the separation of basic and strongly polar compounds. The chromatography column with a OmniPor™-C4 300A pore size is suitable for the separation of peptide and protein samples, and maintains sharp peak shapes
Ø The particle size of 3um can achieve high flux, high resolution and high sensitivity analysis and determination,

OmniPor™-C4 chromatography column parameters:

bonded phase	OmniPor™-C4 （USP L26)
Grain size	3um、 5μm
Aperture	150Å, 300Å
Surface Area	320m2/g
Carbon loading	0.12
The seal	stop end
PH Value stability	1.5-10

Chromatography column: OmniPor™-C4 (300A) 4.6*250mm 5μm
Mobile phase: acetonitrile-water = 75:25
njection volume: 20ul,
wavelength: 254nm
column temperature: 25 degrees
flow rate: 1ml/min



OmniPor™-C30 chromatography column

OmniPor™-C30 chromatography column is bonded with C30 long chain group on the surface of silica gel microspheres and has excellent stereoselectivity by complete sealing process. It is suitable for the separation of isomers such as lipids and fat-soluble vitamins, and shows good separation effect on hydrophilic compounds under the condition of high proportion of aqueous phase mobile phase.

OmniPor™-C30 is also a chromatographic column designed for the determination of separated carotenoid isomers. It can separate cis and trans isomers of carotene, polar lutein isomers and zeaxanthin in lutein, and can be used for the separation of carotene in blood samples, food and natural product extracts for commercial preparation and separation.

OmniPor™-C30 chromatography column parameters:

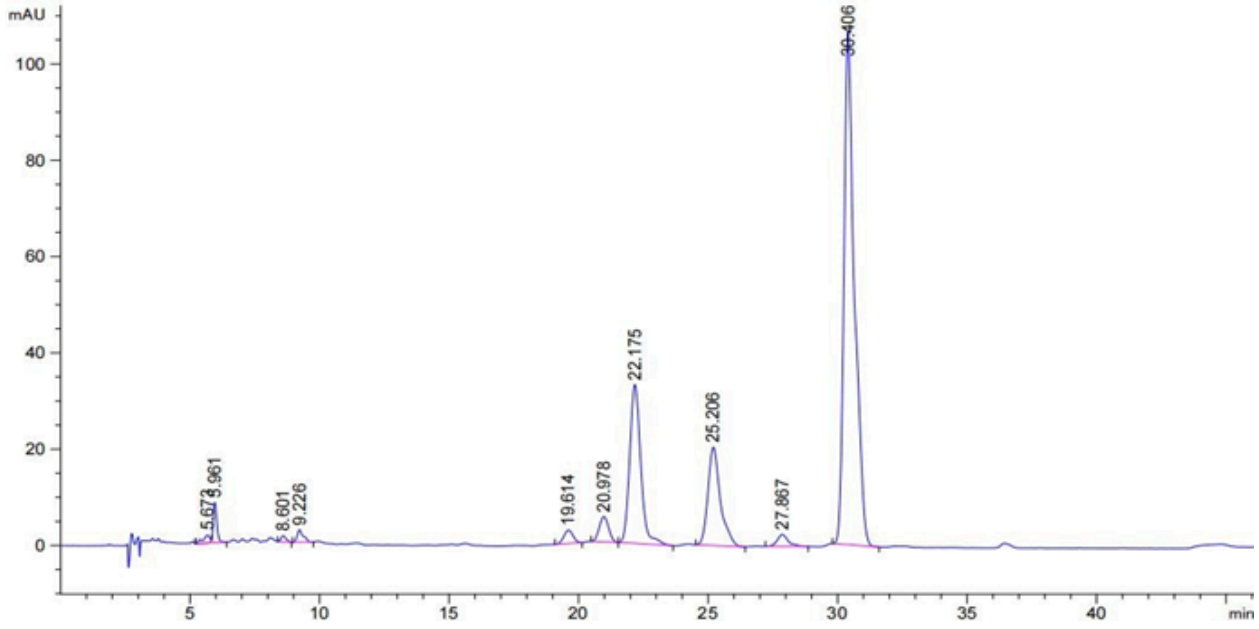
bonded phase	OmniPor™-C30 （USP L62)
Grain size	3um、 5μm
Aperture	100Å,
Surface Area	330m2/g
Carbon loading	0.18
The seal	stop end
PH Value stability	1.5-10

time	A （%)	B （%)
0	75	25
20	75	25
40	50	50
41	75	25
50	75	25

Application case

Lycopene isomers

Chromatography column: OmniPor™-C30 4.6*250mm 5um
Flow rate: 1.0ml/min
Temperature: 25 degrees
Sample size 10ul
Mobile phase
A: methanol-acetonitrile = 1:1 Flow phase
B: methyl tert-butyl ether Wavelength: 470nm



OmniPor™ Phenyl chromatography column

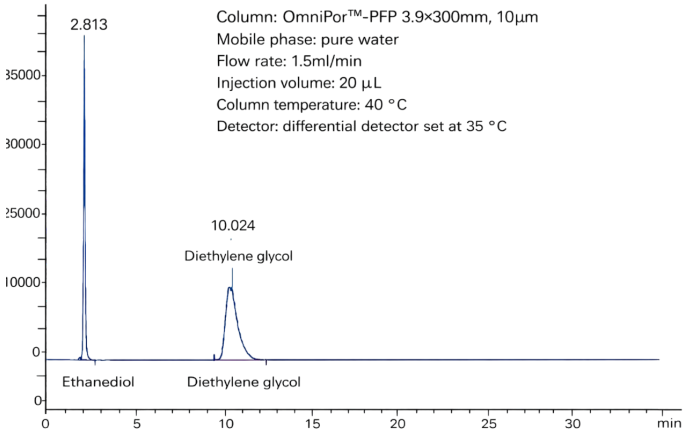
The OmniPor™-Phenyl chromatography column, based on ultra-pure fully porous spherical silica gel with phenyl groups immobilized on its surface and completely end-capped, exhibits distinct selectivity compared to straight-chain alkane columns. This column demonstrates strong retention capacity for aromatic compounds, making it widely applicable for separating drug molecules containing aromatic and heterocyclic structures as well as tea polyphenols. It can effectively replace phenyl-bonded silica gel columns currently available on the market.

OmniPor™ Phenyl chromatography column parameters:

Bonded phase	Phenyl（USP L11）
Grain size	3μm，5μm，10μm
Aperture	100Å
Surface Area	330m2/g(100Å)
Carbon loading	12%(100Å)
The seal	Double-sealed
PH Value stability	1.5-10.0

Application case：

Hydroxypropyl beta cyclodextrin

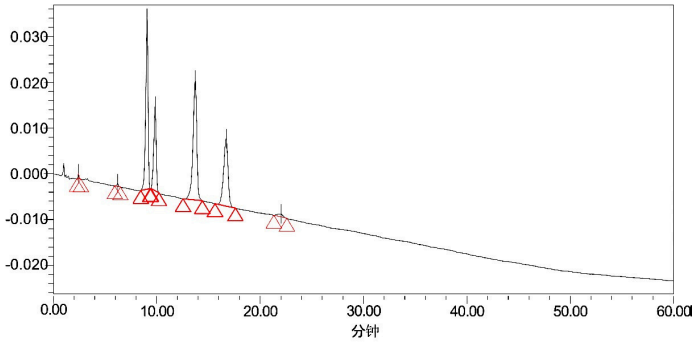


The OmniPor™-PFP chromatography column features a surface-modified pentafluorophenyl group with complete terminal protection, where hydrogen atoms on the benzene rings are replaced by fluorine. This design provides superior ion exchange and polarity-dependent separation characteristics compared to conventional alkyl stationary phases. The column effectively separates phenolic compounds, aromatic and amine compounds, steroid derivatives, and taxane natural products. It demonstrates exceptional performance in separating various aromatic compounds through standard phenyl-column methods, while exhibiting strong geometric and stereoselective discrimination for resolving both diastereomers and enantiomers.

OmniPor™PFP chromatography column parameters:

bonded phase	PFP（USP L11/L43）
Grain size	3μm，5μm
Aperture	100Å
Surface Area	330m2/g(100Å)
Carbon loading	C:13%(100Å),F:7%(100Å)
The seal	Double-sealed
PH Value stability	1.5-10.0

Application case



Samples: 1, 1, 2, 4-trimethoxyphenyl; 2, phthalol; 3, 1,4-Dimethoxybenzene;
4, 1,3,5-trimethoxyphenyl; 5, m-diphenyl ether; dissolved in methanol and diluted with a mobile phase.

Cchromatographic condition：
OmniPor™-PFP 3.5um 2.1*100mm
Mobile phase: methanol: water = 40:60
Flow rate: 0.2ml/min Wavelength: 230nm
Temperature: 30 degrees

OmniPor™ Phenyl-Ether chromatography column

The Phenyl-Ether chromatography column utilizes high-purity silica microspheres with phenyl groups attached via polar terminal ether groups. The presence of ether bonds enhances π- π interactions with conjugated compounds, making it particularly effective for separating polar and aromatic compounds while maintaining compatibility with highly aqueous mobile phases. In accordance with the Indian Pharmacopoeia standards, phenyl-ethyl ether columns are employed for ephedrine determination, with a specially developed column specifically engineered for ephedra analysis.

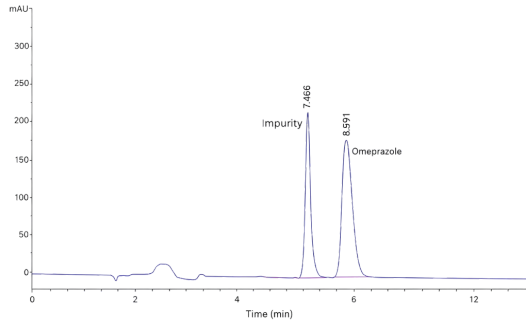
OmniPor™ Phenyl-Ether chromatography column parameters:

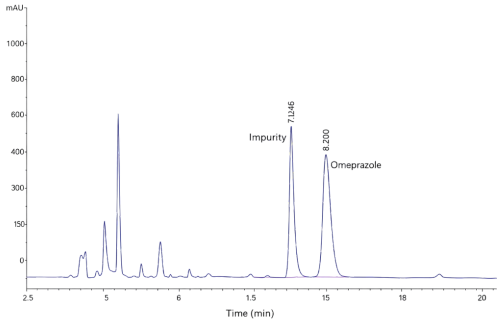
bonded phase	Phenyl-Ether（USP L11）
Grain size	5μm
Aperture	120Å
Surface Area	320m2/g(120Å)
Carbon loading	12%(120Å)
The closing act	Double-sealed
PH Value stability	1.5-10.0

Testing of hemp

Chromatography column: OmniPor™ Phenyl-Ether 4.6×250 mm 5μm
Mobile phase: methanol-0.092% phosphoric acid solution (containing 0.01% triethylamine and 0.02% dibutylamine) = 1.5:98.5 (mixed)
Wavelength: 210nm Flow rate: 1.0ml/min Temperature: 25 degrees Volume: 10ul

According to the content determination under ephedra in Part I of Indian Pharmacopoeia 2020, the determination results meet the requirements for determining ephedra medicinal materials.



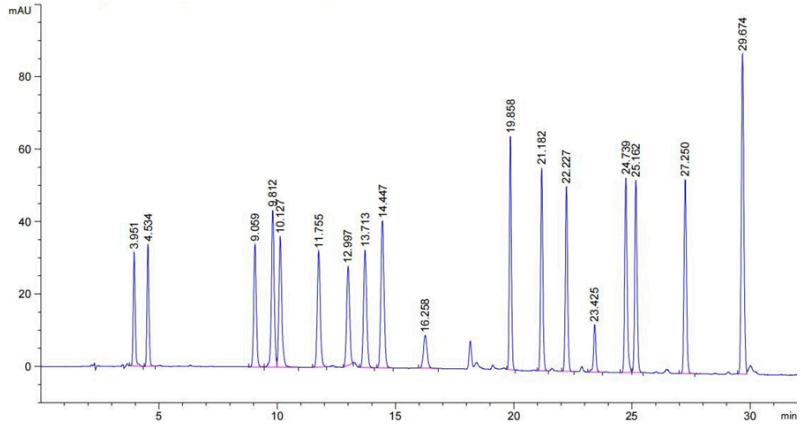


OmniPor™ Amino acid chromatography column
Special chromatographic columnfor amino acid analysis

The OmniPor™Amino Acid Chromatographic Column, developed by PurePhase Scientific , is a specialized chromatographic column designed for amino acid analysis. Utilizing ultra-high purity full-porous spherical silica gel as the matrix, it employs unique bonding technology and thorough tail sealing processes to ensure optimal peak formation for amino acid analysis. Since most amino acids exhibit minimal or no absorption in the ultraviolet region, derivatization is required to enhance detection sensitivity and separation selectivity. This process generates strong UV absorption for detector detection. The developed amino acid analysis method utilizes PITC (benzyl isothiocyanate) as a pre-column derivatizer, achieving rapid reaction completion within 30 minutes at room temperature. The resulting derivatives demonstrate excellent stability, single product formation, and short analysis time.

OmniPor™amino acid analysis column (4.6 x 250,5μm), 1
• Standard amino acid solution, 2 bottles, 1mL/bottle
• Derivative reagent 20mL/bottle
• Derivative reagent 20mL/bottle

OmniPor™Amino Acid Amino acid analysis dedicated column analysis method manual



Determination of amino acids

1. Aspartic acid
2. Glutamic acid
3. Serine
4. Glycine
5. Histidine
6. Arginine
7. Threonine
8. alanine
9. Phalanine
10. Ammonium chloride
11. Tyrosine
12. Valine
13. Methionine
14. Cysteine
15. Isoleucine
16. Leucine
17. Phenylalanine
18. Lysine

OmniPor™ RSZG-Plus chromatography column
Panax ginsenoside column

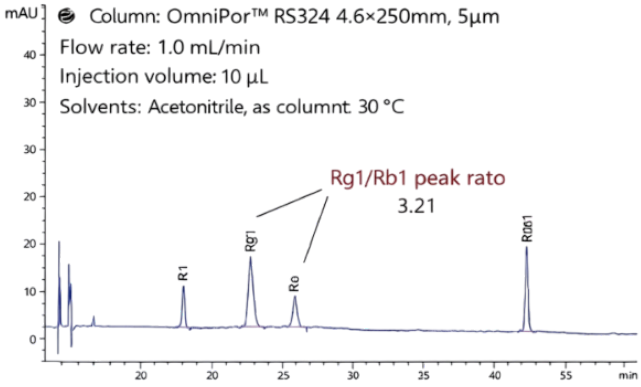
The OmniPor™ RSZG-Plus2 chromatography column, specifically engineered for saponin detection, features a unique design optimized for ginsenoside analysis. It demonstrates exceptional selectivity towards ginsenosides, particularly Rg1 and Re compounds. Compared to conventional C18 columns, this advanced model delivers superior chromatographic performance with enhanced resolution, improved column efficiency, and more balanced retention times. It is primarily used in the analysis of compound Danshen tablets, Panax notoginseng, ginseng, red ginseng, and American ginseng.

Chromatogram map：

Rg1/Rb1 Herbal Tablets

Column: OmniPor™ RS324 4.65mm.5μm
Flow rate: 1.0 mL/min
Injection volume
Solvent A: Acetonitrile, Water
Gradient at: 30 °C

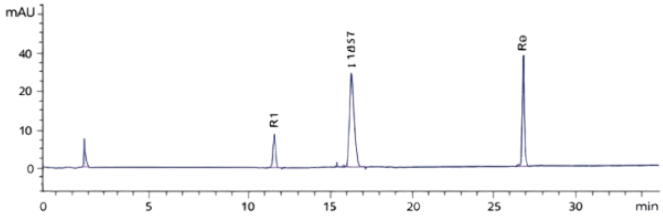
Time	(min)	% Solvent A	% Solvent B
0	19	19	81
35	23	29	71
55	29	40	60
100	40	49	51
110	49	51	81
120	19	19	81



Sanqi (Panax notoginseng)

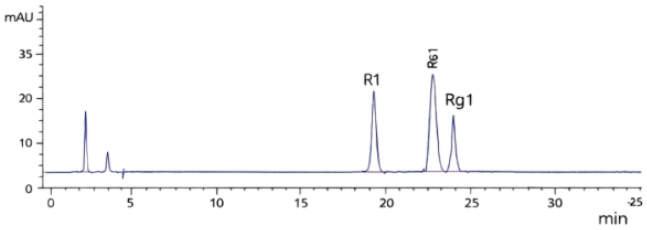
Column: OmniPor™ RS324 4.6×250mm.5μm
Flow rate: 1.5 mL/min
Mobile; phase:
Solvent A: Acetonitrile, Water
Gradient: at 30 °C

Time (min)	% Solvent A	%olvent B
0	19	81
30	35	65
50	19	81



Ginseng (Panax ginseng)

Column: OmniPor™ RS324 4.6×250mm, 5μm
Flow rate: 1.0 mL/min
Injection; 30 °C
Mobile phase: Acetonitrile, as Sàvent:0. 1 %qux Formic acid (20:80)
Column temperature: 30



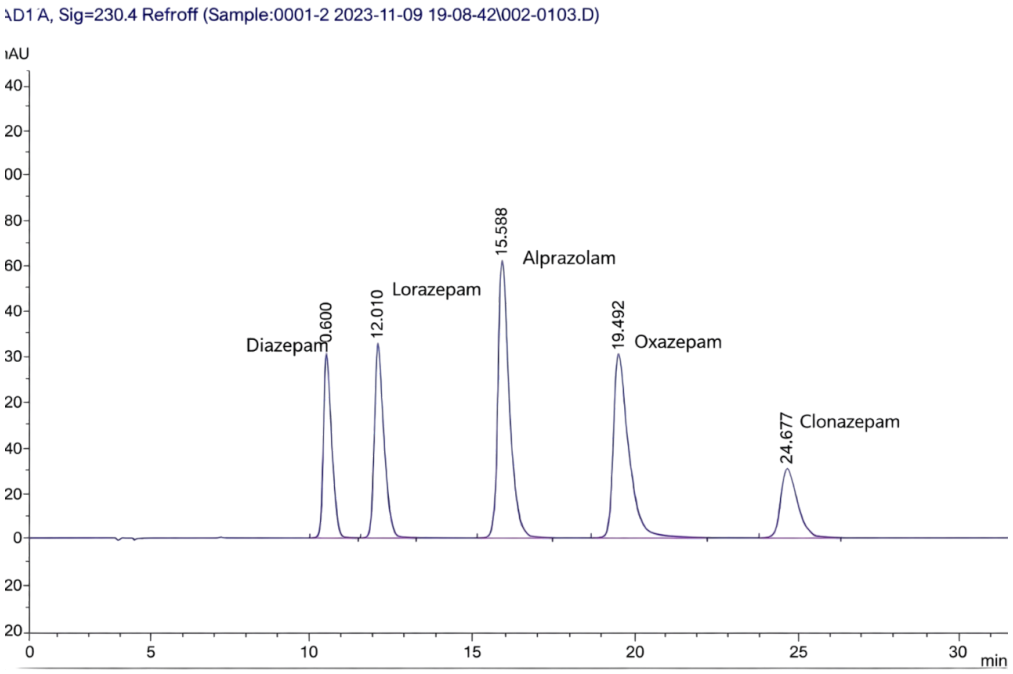
New preservative dedicated chromatography column
OmniPor™ AQ-C18PS dedicated column

The OmniPor™ AQ-C18PS chromatography column is specifically designed for preservative detection in food products. Given the complex matrix interference and high water content in chromatographic mobile phases during testing, this solution addresses the challenges of column durability and tolerance. The AQ-C18PS column features a hydrophilic surface design that maintains stable binding capacity even in 100% aqueous conditions, achieving excellent separation selectivity and symmetry for key preservative compounds including saccharin, benzoic acid, sorbic acid, dehydroacetic acid, and sodium saccharin in food samples.

Chromatographic conditions:(GB 5009.28-2016)

Chromatography column: OmniPor™ AQ-C18PS 4.6*250mm 5um
Mobile phase: 20mmol/L ammonium acetate solution (ammonia water adjusted to pH 7.5)-methanol =95:5;
Flow rate: 1.0ml/min; temperature: 30℃; wavelength: 230nm; injection volume: 5ul Preservative reference solution: 40ug/ml mixed standard

Chromatogram map :



Retention time [min]	Peak area [mAU·s]	peak height [mAU]	resolution	theoretical plate	tailing factor
10.6	871.6366	53.00139	\	9830	1.14
12.21	1076.98047	56.01172	3.46	9511	1.17
15.958	2031.26648	80.20166	6.43	9293	1.19
19.492	1731.85767	50.62688	4.65	8316	1.51
24.877	669.98157	17.93863	5.86	10320	1.11

Ion exchange chromatography column

OmniPor™ -SCX

The OmniPor™ -SCX analytical column, developed using advanced international bonding technology and built upon a rigorous production quality system, is a strong cation exchange chromatography column. It employs silica gel as the matrix and aromatic sulfonic acid groups as the bonded phase. Featuring a high loading capacity (SCX), this column is specifically designed for analyzing alkaline compounds, including organic bases such as basic amino acids, aniline, and nucleotides.

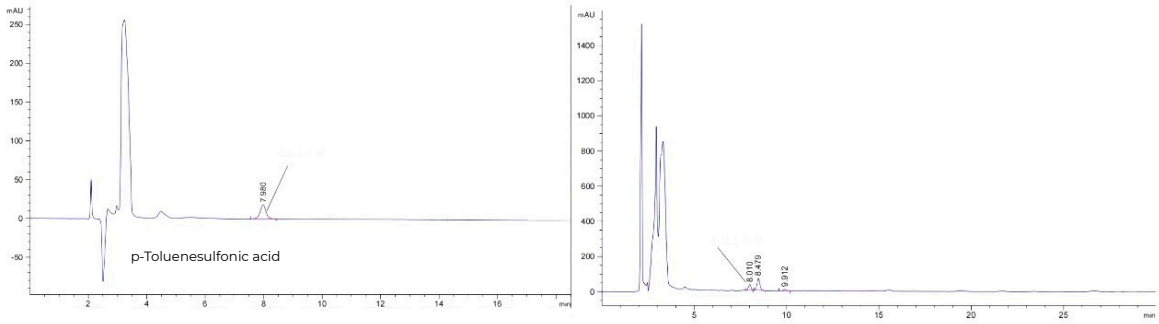
Product features:

- Strong cation exchange mechanism provides complementary selectivity to reverse phase chromatography.
- The column has good reproducibility and low loss under reversed phase
- Under different pH conditions, the retention capacity of organic solvents was adjusted as modifiers.
- It can be repeated and analyzed quickly, and has a wide range of applications.

Application case :

Matrine paste determination

Chromatography column: OmniPor™ -SCX 4.6*250mm 5um
Mobile phase: acetonitrile-0.05mol/L potassium dihydrogen phosphate-phosphoric acid = 15:85:0.15 Flow rate: 1.0ml/min, injection volume: 10ul, temperature: 25 degrees, wavelength: 192nm (UV)



p-Toluenesulfonic acid

Positive HILIC chromatography column

Mechanism of positive phase chromatography

The principle of normal-phase chromatography is based on liquid-solid adsorption. The column packing serves as an adsorbent with active adsorption sites distributed on its surface, where both solvent and solute molecules can be adsorbed. Due to differences in interaction forces, there exists competitive adsorption between solvent molecules and solute molecules, as well as among solute molecules themselves. This results in variations in retention time within the column, enabling separation of different substances. The stationary phase in normal-phase chromatography typically consists of silica gel or other polar functional group-bound phases, such as amino (NH), diol (Diol), and cyano (CN). Silica gel has strong polarity due to its surface silanol groups (SiOH) or other functional groups. Analytical elution order follows the polarity of each component, meaning components with weaker polarity elute from the column first. The mobile phase in normal-phase chromatography usually contains low-polarity organic solvents like n-hexane (Hexane), chloroform (Chloroform), dichloromethane (Methylene Chloride), and ethyl acetate (Ethyl Acetate).

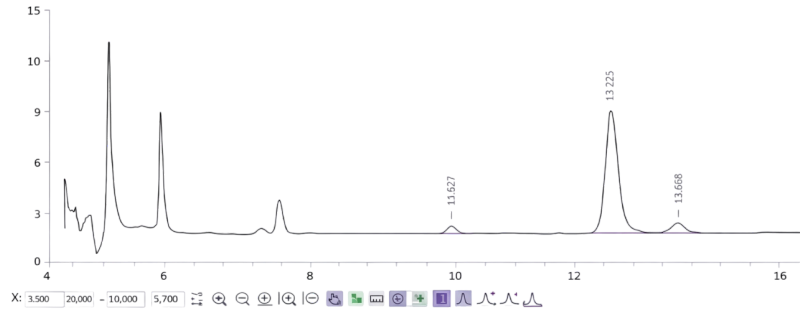
OmniPor™ -SiO2 chromatography column

The OmniPor™ -SIO2 chromatography column utilizes unmodified Type B ultra-pure fully porous spherical silica gel, featuring low acidity and minimal metal content. It enables separation of strongly hydrophilic compounds using a high organic phase in reverse-phase HILIC mode. Particularly effective for separating polar compounds that exhibit tailing effects when used with other manufacturers' silica gel (SiO2) columns. This column is ideal for analyzing hydrophilic compounds.

Application case

Strychnine

Chromatography column: OmniPor™ -SiO24.6×250 mm 5μm
Mobile phase: n-hexane: dichloroethane: methanol: ammonia = 42.5:42.5:5.4:0.35 mixture Wavelength: 254nm, temperature: 25 degrees
Flow rate: 1.0ml/min, injection volume: 10ul



No.	Name	Retention Time (min)	Area (mAU*s)	Height (mAU)	Area %	Height %	Concentration (ug/mL)
1	N.A.	5.413	33.327	2.3748	69.697	81.859	33614.798
2	N.A.	11.627	13.530	0.2603	7.187	8.975	22486.546
3	N.A.	13.668	3.563	2.563	8.000	9.290	21795.559

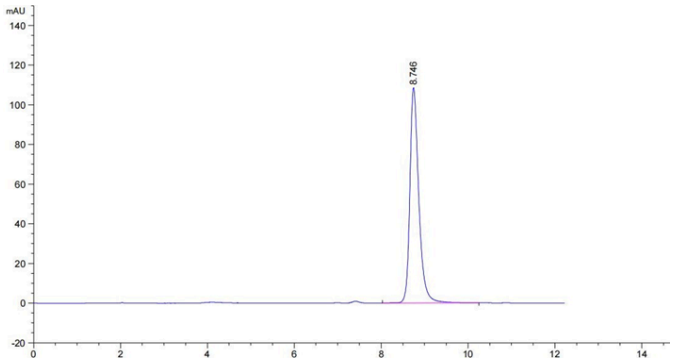
No.	Name	Area					
1	N.A.	33.327	2.3748	69.697	81.859	N.A.	33614.798
2	N.A.	13.530	0.2603	7.187	8.975	N.A.	22486.546

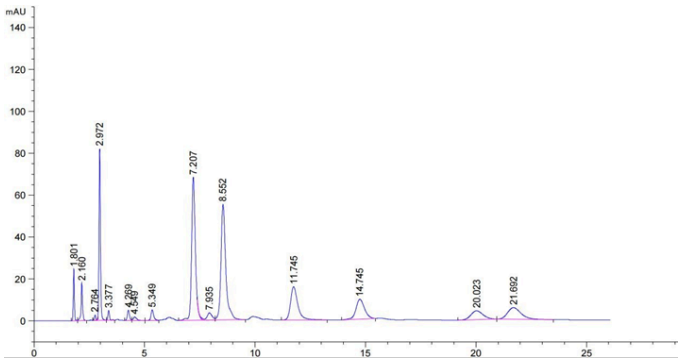
OmniPor™ - DiOL chromatography column

OmniPor™ -DIOL (diol based) liquid chromatography column, Diol filler belongs to the polar positive phase filler, its positive phase retention capacity is similar to silica gel and amino filler
The column is suitable for three separation modes: normal, reversed, and HILIC. The two hydroxyl groups on the diol stationary phase provide moderate normal-phase retention with superior selectivity. Compared to silica gel columns, diol columns exhibit significantly lower sensitivity to water content in the mobile phase. The diol groups demonstrate weaker polarity than the silanol groups on unmodified silica gel surfaces, offering moderate normal-phase retention and unique selectivity. This makes it particularly effective for analyzing hydrophilic and polar compounds.

Application case：

Highly effective lambda-cyhalothrin
Chromatography column: OmniPor™ DiOL 4.6*250mm 5um
Chromatographic conditions: n-hexane-tetrahydrofuran = 99.3:0.7 mixture preparation Flow rate: 2.0ml/min
Wavelength: 278nm Volume: 10ul Temperature: 25 degrees



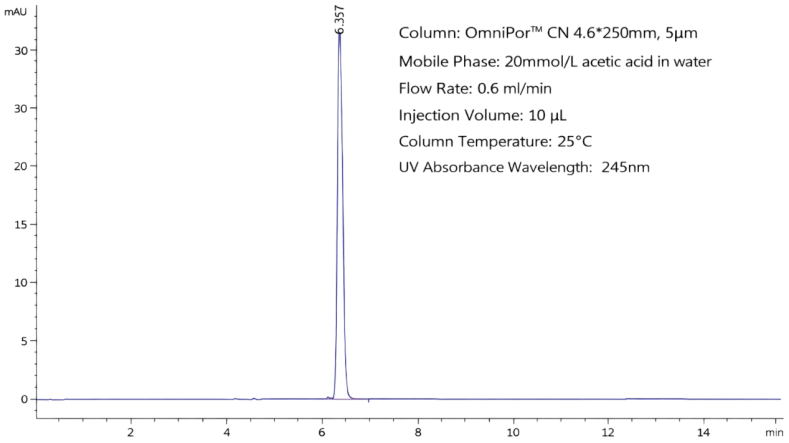


OmniPor™ -CN chromatography column

The OmniPor™ -CN (cyano) chromatography column operates in three modes: normal, reversed, and HILIC. It employs a dual-retention mechanism: its surface-bound cyano groups create strong dipole-dipole interactions with polar compounds, while the propyl chains provide hydrophobic effects,enabling unique selectivity that expands chromatographic applications. The cyano column elutes hydrophobic molecules rapidly while demonstrating exceptional selectivity for polar compounds, particularly maintaining favorable peak shapes when separating strongly basic substances (including ammonium salts). Unlikereversed-phase columns such as C18 and C8, it exhibitsdistinct selectivity characteristics. Among all reversed-phase chromatography columns, it demonstrates the strongest polarity.

When compounds with strong hydrophobicity cannot be eluted by standard C18, C8 columns or typical reverse-phase eluents, a cyano column can be used. Additionally, the cyano column offers distinctselectivity compared to reverse-phase columns such as C18, C8, and C4 phenyl columns. Both normal-phase and reverse-phase elution methods are applicable.

Application case：



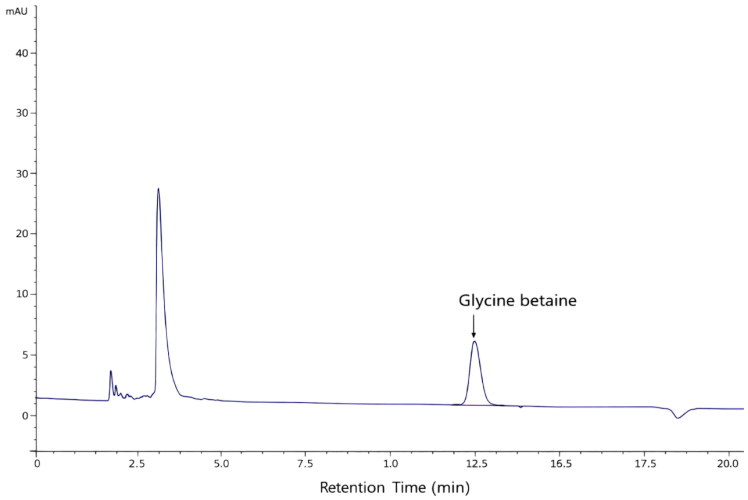
Retention Time [min]	k'	Cassette Number [mAU*s]	Area [mAU*s]	Height [mAU]	Asymmetry Factor	Number of Plates [plates/meter]	HETP [cm]
6.357	----	219.15120	32.30978	0.94	0.1027	21205	0.0118

OmniPor™ -NH2 chromatography column

OmniPor™ -NH2 (propylamino) is suitable as a stationary phase for most normal-phase chromatography, reversed-phase chromatography, and HILIC hydrophobic immobile phases. It can be used for normal-phase analysis of polar compounds, weak anion exchange, and water-containing polar compounds such as carbohydrates, monosaccharides, oligosaccharides, and sugar alcohols. Additionally, it enables the separation of hydrocarbons under normal-phase conditions.

Barbary wolfberry Determination of Zeta
Chromatography column: OmniPor™ -NH24.6×250 mm 5μm

Mobile phase: acetonitrile-water = 85:15 (mixed preparation)
Wavelength: 195nm



OmniPor™ HILIC-Amidechromatography column

The OmniPor™ HILIC-Amide chromatography column, a hydrophilic amide-based column with ultra-pure silica gel as the matrix, stands as one of the most widely used HILIC columns. It enables rapid and efficient separation of carbohydrates, peptides, and low-molecular-weight polar drugs. Featuring exceptional chemical stability, it demonstrates excellent retention for small to medium-sized polar compounds, ensuring consistent reproducibility across different batches of the packing material.

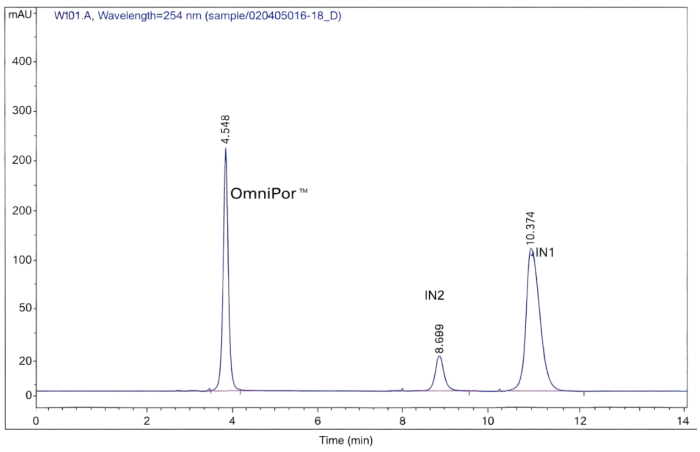
Application case :

Buckwheat-Hyoscyamine hydrochloride:

chromatographic column：
OmniPor™ Propyl-Amide 4.6×250mm 5um
Mobile phase: acetonitrile: 0.2% glacial acetic acid (80:20) Flow rate: 0.5ml/min column temperature: 40℃

Benzoylhydrazine mixture:
Chromatography column: OmniPor™ Amide 4.6× 250 mm 5 μm

Mobile phase A: 20Mmol/L ammonium formate(plus 0.1% triethylamine +4% formic acid) and pH was adjustedto 3.0 Mobile phase B: acetonitrile
Mobile phase A: Mobile phase B = 15:85 Flow rate: 0.8ml/min
Wavelength: 254nm



Polymer matrix liquid chromatography column

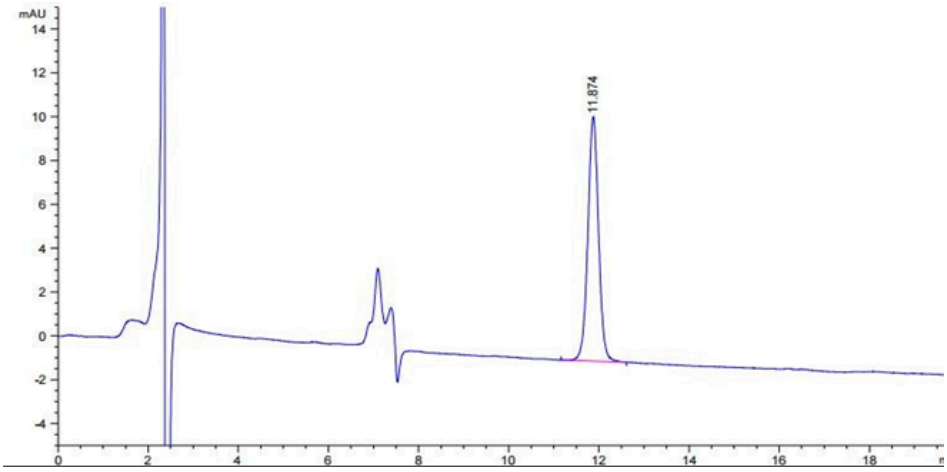
The polysaccharide analytical chromatography column utilizes two PS/DVB single-dispersed microsphere matrices with distinct cross-linking degrees, formed through a unique sulfonation coupling process. This results in four highly selective column types based on the ligand exchange principle: (Sugar-H) hydrogen-form, (Sugar-NA) sodium-form, and (Sugar-CA) calcium-form. These columns are specifically designed to meet the analytical requirements for various polysaccharides, sugar alcohols, and organic acids.

GPC-GY is a porous chromatography column based on polystyrene divinylbenzene (PS/DVB) as the matrix, featuring exceptional mechanical strength. Compared to traditional silica-based reversed-phase fillers, this column demonstrates a significant advantage: it can be used under extreme pH conditions (1-14).

Application case：

Acrylamide project determination
I. Chromatographic conditions:

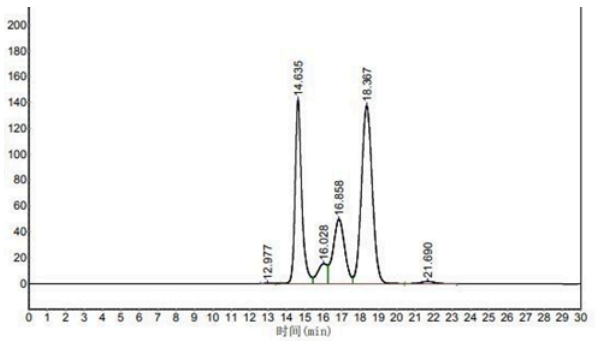
Chromatography column: OmniPor™ Sugar-H 4.6*250mm 5um
Mobile phase: acetonitrile-0.0036mol/L aqueous sulfuric acid = 9:91 (mixed solution)
Flow rate: 0.5ml/min column temperature: 50 degrees wavelength: 198nm injection volume: 20ul

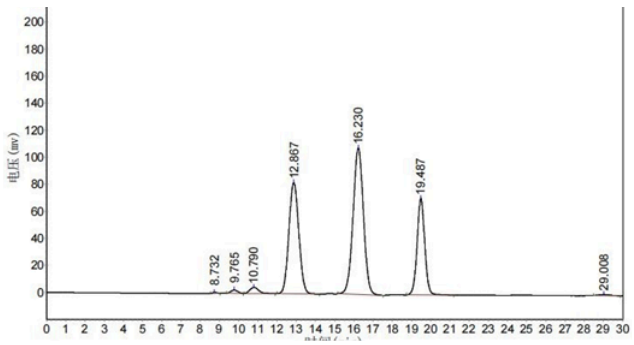


Determination of polyglycol

Chromatography column: Sugar-CA 7.8*300mm 8um
Mobile phase: water temperature: column temperature 80 degrees, detector: 50 degrees
Detector: RI flow rate: 0.5ml/min injection volume: 20ul sample concentration: 1% concentration dissolved in water.

Chromatogram:
Figure 1: Maltose Figure 2: Fructose
Figure 1: Maltose Figure 2: Fructose



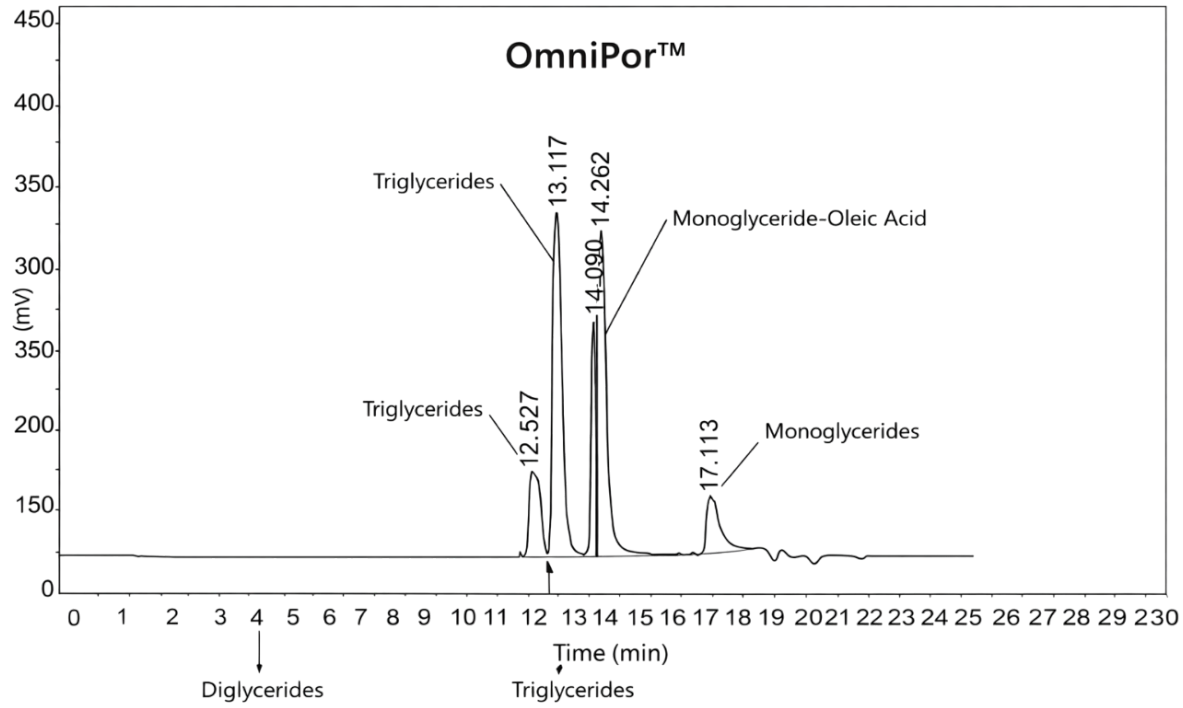


Determination of glyceryl monostearate and glycerol monostearate content

Chromatography column: OmniPor™ GPC-GY 5 μ m 7.8 × 300mm 100 A (2 columns used in series, styrene-divinylbenzene copolymer)

Mobile phase: tetrahydrofuran
Column temperature: 40℃, detector temperature: 40℃. Flow rate: 1.0ml/min, injection volume: 40ul.
Sample solution preparation: Weigh the sample accurately, add mobile phase to dissolve and dilute it quantitatively to make a solution containing about 40mg per 1ml.

Chromatogram map：



Name	Retention time	Peak area	Peak height	Half band width	Resolution	Number of theoretical plates
Tri-Glycerides	12.527	919701.438	56058.258	0.26	/	12887.182
Di-Glycerides	13.117	5104695	262335.094	0.295	1.051	10963.617
monoglyceride	14.09	1605341.5	178635.641	0.148	2.18	49986.664
free fatty acids	14.262	3782357.25	246027.922	0.242	0.47	19325.334
glycerol	17.113	1081179.875	35898.313	0.508	3.8	6286.212

UHPLC ultra high pressure liquid chromatography column

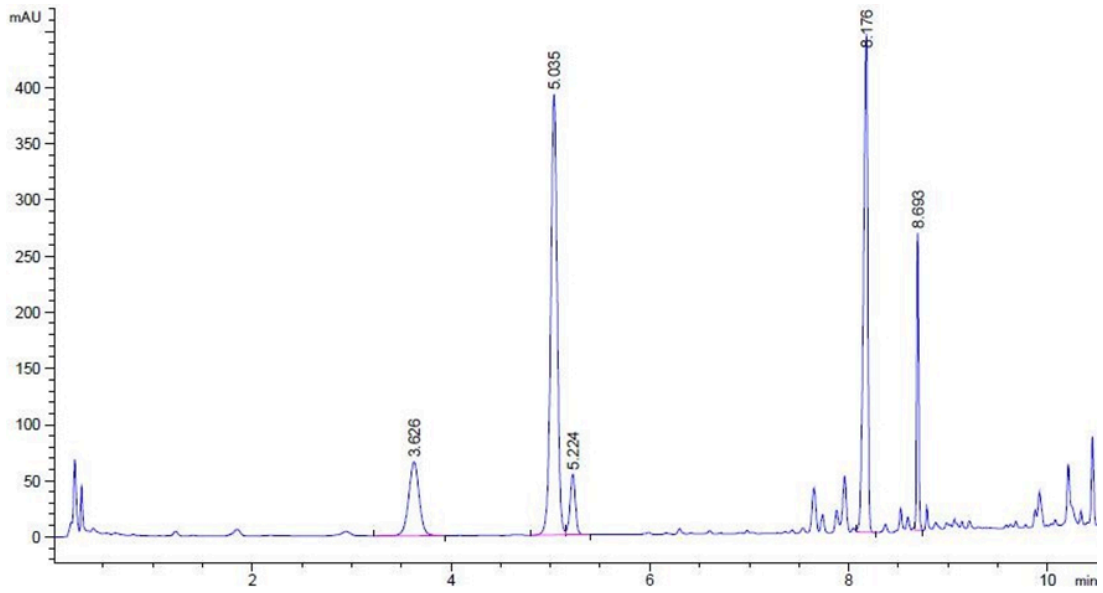
The OmniPor™ UHPLC series chromatography columns, developed by Nanjing Biotechnology through innovative R&D in rapid analysis technologies, represent a new generation of ultra-high-performance liquid chromatography (UHPLC) columns. The OmniPor™ UHPLC 1.8μm particle size chromatography silica gel microspheres demonstrate enhanced mechanical strength and higher pressure tolerance. These columns outperform conventional HPLC systems in column efficiency, sensitivity, and analytical performance, offering significant advantages in reducing analysis time while minimizing solvent consumption and improving experimental productivity.

Characteristics of chromatography packing:

- The particle size of 1.8μm was uniform in the university.
- Stable column bed and batch stability.
- High column efficiency and high pressure resistance 15000psi
- Rich bonding phases
- The chromatography column is connected to UPLC and has high universality.

Application case (Sanqi total saponin)

Chromatographic column：	OmniPor™ -C18 2.1*50mm，1.8μm
Mobile phase：	Gradient mobile phase A: water B: acetonitrile
Detection wavelength:	203nm
Column temperature：	25℃
Velocity of flow：	0.6ml/min
Sample size：	2μl



GhostTrap™ Column - A column you must have !!!

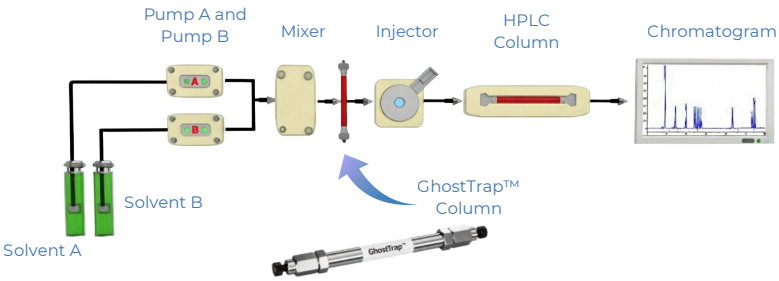
Product Introduction

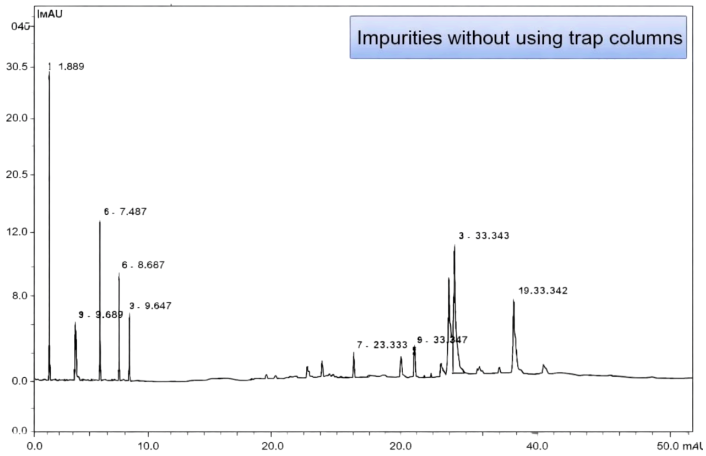
In liquid chromatography analysis, ghost peaks are almost inevitable, especially when using buffer salts or acidic additives in gradient elution, which can easily interfere with the separation or quantification of trace or ultra-trace substances. Once ghost peaks emerge during method development, their elimination requires analysts to invest significant time and effort—a particularly challenging task. Now, this issue has finally been resolved!

GhostTrap™ Ghost Peak Capture Mini Column effectively captures impurities in the mobile phase, thoroughly eliminating ghost peaks. This significantly reduces time required for method validation and analysis of trace/ultra-trace substances. For pharmaceutical analysts and R&D professionals, GhostTrap™ or Ghost Peak Capture Mini Column is your essential tool for eliminating ghost peaks!

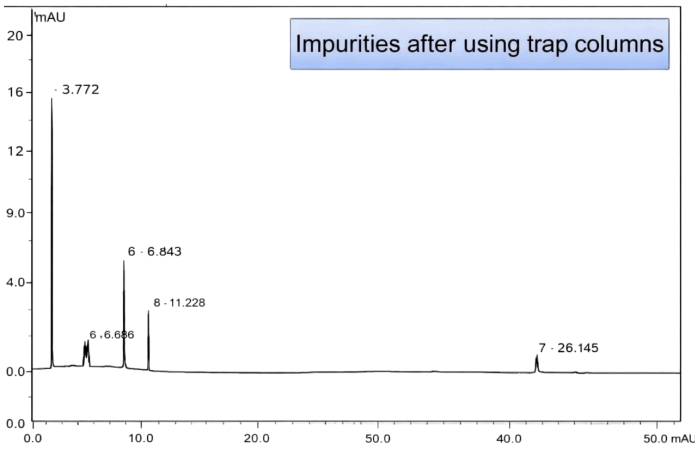
How and Where to use GhostTrap™ Column ?

The GhostTrap™ Ghost Peak Capture Small Column is designed to remove impurities from solvents including organic solvents. When performing reverse-phase chromatography gradient analysis, this column is installed between the gradient mixer and autosampler. It not only eliminates contaminants in the mobile phase but also effectively captures impurities in the tubing and mixing components.





Before using GhostTrap™ Column



After using GhostTrap™ Column

Effect comparison :

The following example shows that installing a small column after the mixer can effectively capture impurities introduced by the mobile phase.
Chromatography column: OmniPor™-C18 4.6*250mm 5um

Mobile phase A: 25mM phosphate (potassium salt) rinse solution pH 4.0/ acetonitrile = 9/1 B: water/acetonitrile = 1/9 Mobile phase A: 25mM phosphate (potassium salt) buffer pH 4.0/ acetonitrile = 9/1 B: water/acetonitrile = 1/9
Flow rate: 1.0mL/min column temperature: room temperature detection wavelength: UV 210nm

Life length :

Compared with the results of no trap column and with trap column, the use of trap column can effectively remove ghost peaks. After 600 analyses, there is still no ghost peaks. The experimental results show that trap column can stably adsorb impurities and has enough loading capacity for multiple analyses.

Explaination :

- The actual life of the product varies according to the analytical conditions, such as the different mobile phases used, and not all impurities can be removed.
- When connected to the junction of a gradient mixer or pump, the gradient analysis will have a delay volume equivalent to that of the small column volume. This product can be used by almost all brands of liquid-phase instruments. When using a mass spectrometer as the detector, this product may cause slight dissolution and baseline noise.
- If the ionic pair reagent is used in the analysis, the product may adsorb the ionic pair reagent and affect the retention time or peak profile of the component.
- Before connecting the analytical column, make sure to thoroughly flush the pipeline connected to the product with the mobile phase (close to the final concentration in gradient analysis).

Ordering Information

Part Number	Bonding phase	Dimension	Aperture
PS18154650	OmniPor™-C18 General purpose	5μm, 4.6×50mm	120A
PS181546100	OmniPor™-C18 General purpose	5μm, 4.6×100mm	120A
PS181546150	OmniPor™-C18 General purpose	5μm, 4.6×150mm	120A
PS181546200	OmniPor™-C18 General purpose	5μm, 4.6×200mm	120A
PS181546250	OmniPor™-C18 General purpose	5μm, 4.6×250mm	120A
PS181546300	OmniPor™-C18 General purpose	5μm, 4.6×300mm	120A
PS18154650-300	OmniPor™-C18 General purpose	5μm, 4.6×50mm	300A
PS181546100-300	OmniPor™-C18 General purpose	5μm, 4.6×100mm	300A
PS181546150-300	OmniPor™-C18 General purpose	5μm, 4.6×150mm	300A
PS181546200-300	OmniPor™-C18 General purpose	5μm, 4.6×200mm	300A
PS181546250-300	OmniPor™-C18 General purpose	5μm, 4.6×250mm	300A
PS181546300-300	OmniPor™-C18 General purpose	5μm, 4.6×300mm	300A
PS18254650	OmniPor™ AQ-C18	5μm, 4.6×50mm	120A
PS182546100	OmniPor™ AQ-C18	5μm, 4.6×100mm	120A
PS182546150	OmniPor™ AQ-C18	5μm, 4.6×150mm	120A
PS182546200	OmniPor™ AQ-C18	5μm, 4.6×200mm	120A
PS182546250	OmniPor™ AQ-C18	5μm, 4.6×250mm	120A
PS182546300	OmniPor™ AQ-C18	5μm, 4.6×300mm	120A
PS8154650	OmniPor™-C8	5μm, 4.6×50mm	120A
PS81546100	OmniPor™-C8	5μm, 4.6×100mm	120A
PS81546150	OmniPor™-C8	5μm, 4.6×150mm	120A
PS81546200	OmniPor™-C8	5μm, 4.6×200mm	120A
PS81546250	OmniPor™-C8	5μm, 4.6×250mm	120A
PS81546300	OmniPor™-C8	5μm, 4.6×300mm	120A
PSSO154650	OmniPor™-SiO2 Silica gel column	5μm, 4.6×50mm	120A
PSSO1546100	OmniPor™-SiO2 Silica gel column	5μm, 4.6×100mm	120A
PSSO1546150	OmniPor™-SiO2 Silica gel column	5μm, 4.6×150mm	120A
PSSO1546200	OmniPor™-SiO2 Silica gel column	5μm, 4.6×200mm	120A

Part Number	Bonding phase	Dimension	Aperture
PSSO1546250	OmniPor™-SiO2 Silica gel column	5μm, 4.6×250mm	120A
PSSO1546300	OmniPor™-SiO2 Silica gel column	5μm, 4.6×300mm	120A
PSPH154650	OmniPor™-Phenyl phenyl column	5μm, 4.6×50mm	120A
PSPH1546100	OmniPor™-Phenyl phenyl column	5μm, 4.6×100mm	120A
PSPH1546150	OmniPor™-Phenyl phenyl column	5μm, 4.6×150mm	120A
PSPH1546200	OmniPor™-Phenyl phenyl column	5μm, 4.6×200mm	120A
PSPH1546250	OmniPor™-Phenyl phenyl column	5μm, 4.6×250mm	120A
PSPH1546300	OmniPor™-Phenyl phenyl column	5μm, 4.6×300mm	120A
PSNH154650	OmniPor™-NH2	5μm, 4.6×50mm	120A
PSNH1546100	OmniPor™-NH2	5μm, 4.6×100mm	120A
PSNH1546150	OmniPor™-NH2	5μm, 4.6×150mm	120A
PSNH1546200	OmniPor™-NH2	5μm, 4.6×200mm	120A
PSNH1546250	OmniPor™-NH2	5μm, 4.6×250mm	120A
PSNH1546300	OmniPor™-NH2	5μm, 4.6×300mm	120A
PSNH254650	OmniPor™-NH2 (2)	5μm, 4.6×50mm	120A
PSNH2546100	OmniPor™-NH2 (2)	5μm, 4.6×100mm	120A
PSNH2546150	OmniPor™-NH2 (2)	5μm, 4.6×150mm	120A
PSNH2546200	OmniPor™-NH2 (2)	5μm, 4.6×200mm	120A
PSNH2546250	OmniPor™-NH2 (2)	5μm, 4.6×250mm	120A
PSNH2546300	OmniPor™-NH2 (2)	5μm, 4.6×300mm	120A
PSCN154650	OmniPor™-CN	5μm, 4.6×50mm	120A
PSCN1546100	OmniPor™-CN	5μm, 4.6×100mm	120A
PSCN1546150	OmniPor™-CN	5μm, 4.6×150mm	120A
PSCN1546200	OmniPor™-CN	5μm, 4.6×200mm	120A
PSCN1546250	OmniPor™-CN	5μm, 4.6×250mm	120A
PSCN1546300	OmniPor™-CN	5μm, 4.6×300mm	120A

Part Number	Bonding phase	Dimension	Aperture
PS18454650	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	5μm, 4.6×50mm	120A
PS184546100	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	5μm, 4.6×100mm	120A
PS184546150	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	5μm, 4.6×150mm	120A
PS184546200	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	5μm, 4.6×200mm	120A
PS184546250	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	5μm, 4.6×250mm	120A
PS184546300	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	5μm, 4.6×300mm	120A
PS18554650	OmniPor™ AC-C18 Acid tolerance pH0.8-10	5μm, 4.6×50mm	120A
PS185546100	OmniPor™ AC-C18 Acid tolerance pH0.8-10	5μm, 4.6×100mm	120A
PS185546150	OmniPor™ AC-C18 Acid tolerance pH0.8-10	5μm, 4.6×150mm	120A
PS185546200	OmniPor™ AC-C18 Acid tolerance pH0.8-10	5μm, 4.6×200mm	120A
PS185546250	OmniPor™ AC-C18 Acid tolerance pH0.8-10	5μm, 4.6×250mm	120A
PS185546300	OmniPor™ AC-C18 Acid tolerance pH0.8-10	5μm, 4.6×300mm	120A
PS18654650	Solidis™ C18 pH 1-12	5μm, 4.6×50mm	120A
PS186546100	Solidis™ C18 pH 1-12	5μm, 4.6×100mm	120A
PS186546150	Solidis™ C18 pH 1-12	5μm, 4.6×150mm	120A
PS186546200	Solidis™ C18 pH 1-12	5μm, 4.6×200mm	120A
PS186546250	Solidis™ C18 pH 1-12	5μm, 4.6×250mm	120A
PS186546300	Solidis™ C18 pH 1-12	5μm, 4.6×300mm	120A
PS4154650	OmniPor™-C4	5μm, 4.6×50mm	150A
PS41546100	OmniPor™-C4	5μm, 4.6×100mm	150A
PS41546150	OmniPor™-C4	5μm, 4.6×150mm	150A
PS41546200	OmniPor™-C4	5μm, 4.6×200mm	150A
PS41546250	OmniPor™-C4	5μm, 4.6×250mm	150A
PS41546300	OmniPor™-C4	5μm, 4.6×300mm	150A

Part Number	Bonding phase	Dimension	Aperture
PS4154650-300	OmniPor™-C4 300A	5μm, 4.6×50mm	300A
PS41546100-300	OmniPor™-C4 300A	5μm, 4.6×100mm	300A
PS41546150-300	OmniPor™-C4 300A	5μm, 4.6×150mm	300A
PS41546200-300	OmniPor™-C4 300A	5μm, 4.6×200mm	300A
PS41546250-300	OmniPor™-C4 300A	5μm, 4.6×250mm	300A
PS41546300-300	OmniPor™-C4 300A	5μm, 4.6×300mm	300A
PSSC154650	OmniPor™-SCX Strong cation exchange	5μm, 4.6×50mm	120A
PSSC1546100	OmniPor™-SCX Strong cation exchange	5μm, 4.6×100mm	120A
PSSC1546150	OmniPor™-SCX Strong cation exchange	5μm, 4.6×150mm	120A
PSSC1546250	OmniPor™-SCX Strong cation exchange	5μm, 4.6×250mm	120A
PSSC1546300	OmniPor™-SCX Strong cation exchange	5μm, 4.6×300mm	120A
PS18134650	OmniPor™-C18 General purpose	3μm, 4.6×50mm	120A
PS181346100	OmniPor™-C18 General purpose	3μm, 4.6×100mm	120A
PS181346150	OmniPor™-C18 General purpose	3μm, 4.6×150mm	120A
PS181346200	OmniPor™-C18 General purpose	3μm, 4.6×200mm	120A
PS181346250	OmniPor™-C18 General purpose	3μm, 4.6×250mm	120A
PS181346300	OmniPor™-C18 General purpose	3μm, 4.6×300mm	120A
PS181330100	OmniPor™-C18 General purpose	3μm, 3.0×100mm	120A
PS181330150	OmniPor™-C18 General purpose	3μm, 3.0×150mm	120A
PS181330250	OmniPor™-C18 General purpose	3μm, 3.0×250mm	120A
PS18132150	OmniPor™-C18 General purpose	3μm, 2.1×50mm	120A
PS181321100	OmniPor™-C18 General purpose	3μm, 2.1×100mm	120A
PS181321150	OmniPor™-C18 General purpose	3μm, 2.1×150mm	120A
PS8134650	OmniPor™-C8	3μm, 4.6×50mm	120A
PS81346100	OmniPor™-C8	3μm, 4.6×100mm	120A
PS81346150	OmniPor™-C8	3μm, 4.6×150mm	120A
PS81346200	OmniPor™-C8	3μm, 4.6×200mm	120A
PS81346250	OmniPor™-C8	3μm, 4.6×250mm	120A

Part Number	Bonding phase	Dimension	Aperture
PS81346300	OmniPor™-C8	3μm, 4.6×300mm	120A
PS81330100	OmniPor™-C8	3μm, 3.0×100mm	120A
PS81330150	OmniPor™-C8	3μm, 3.0×150mm	120A
PS81330250	OmniPor™-C8	3μm, 3.0×250mm	120A
PS8132150	OmniPor™-C8	3μm, 2.1×50mm	120A
PS81321100	OmniPor™-C8	3μm, 2.1×100mm	120A
PS81321150	OmniPor™-C8	3μm, 2.1×150mm	120A
PS18434650	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 4.6×50mm	120A
PS184346100	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 4.6×100mm	120A
PS184346150	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 4.6×150mm	120A
PS184346200	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 4.6×200mm	120A
PS184346250	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 4.6×250mm	120A
PS184346300	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 4.6×300mm	120A
PS184330100	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 3.0×100mm	120A
PS184330150	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 3.0×150mm	120A
PS184330250	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 3.0×250mm	120A
PS18432150	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 2.1×50mm	120A
PS184321100	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 2.1×100mm	120A
PS184321150	OmniPor™ AQ-C18(2) Polarity embedding, increased retention	3μm, 2.1×150mm	120A
PS18634650	Solidis™ C18 pH 1-12	3μm, 4.6×50mm	120A
PS186346100	Solidis™ C18 pH 1-12	3μm, 4.6×100mm	120A
PS186346150	Solidis™ C18 pH 1-12	3μm, 4.6×150mm	120A
PS186346200	Solidis™ C18 pH 1-12	3μm, 4.6×200mm	120A
PS186346250	Solidis™ C18 pH 1-12	3μm, 4.6×250mm	120A
PS186346300	Solidis™ C18 pH 1-12	3μm, 4.6×300mm	120A
PS186330100	Solidis™ C18 pH 1-12	3μm, 3.0×100mm	120A
PS186330150	Solidis™ C18 pH 1-12	3μm, 3.0×150mm	120A
PS186330250	Solidis™ C18 pH 1-12	3μm, 3.0×250mm	120A

Part Number	Bonding phase	Dimension	Aperture
PS18632150	Solidis™ C18 pH 1-12	3μm, 2.1×50mm	120A
PS186321100	Solidis™ C18 pH 1-12	3μm, 2.1×100mm	120A
PS186321150	Solidis™ C18 pH 1-12	3μm, 2.1×150mm	120A
PSSO134650	OmniPor™-SiO2 Silica gel column	3μm, 4.6×50mm	120A
PSSO1346100	OmniPor™-SiO2 Silica gel column	3μm, 4.6×100mm	120A
PSSO1346150	OmniPor™-SiO2 Silica gel column	3μm, 4.6×150mm	120A
PSSO1346200	OmniPor™-SiO2 Silica gel column	3μm, 4.6×200mm	120A
PSSO1346250	OmniPor™-SiO2 Silica gel column	3μm, 4.6×250mm	120A
PSSO1346300	OmniPor™-SiO2 Silica gel column	3μm, 4.6×300mm	120A
PSSO1330100	OmniPor™-SiO2 Silica gel column	3μm, 3.0×100mm	120A
PSSO1330150	OmniPor™-SiO2 Silica gel column	3μm, 3.0×150mm	120A
PSSO1330250	OmniPor™-SiO2 Silica gel column	3μm, 3.0×250mm	120A
PSSO132150	OmniPor™-SiO2 Silica gel column	3μm, 2.1×50mm	120A
PSSO1321100	OmniPor™-SiO2 Silica gel column	3μm, 2.1×100mm	120A
PSSO1321150	OmniPor™-SiO2 Silica gel column	3μm, 2.1×150mm	120A
PSNH134650	OmniPor™-NH2	3μm, 4.6×50mm	120A
PSNH1346100	OmniPor™-NH2	3μm, 4.6×100mm	120A
PSNH1346150	OmniPor™-NH2	3μm, 4.6×150mm	120A
PSNH1346200	OmniPor™-NH2	3μm, 4.6×200mm	120A
PSNH1346250	OmniPor™-NH2	3μm, 4.6×250mm	120A
PSNH1346300	OmniPor™-NH2	3μm, 4.6×300mm	120A
PSNH1330100	OmniPor™-NH2	3μm, 3.0×100mm	120A
PSNH1330150	OmniPor™-NH2	3μm, 3.0×150mm	120A
PSNH1330250	OmniPor™-NH2	3μm, 3.0×250mm	120A
PSNH132150	OmniPor™-NH2	3μm, 2.1×50mm	120A
PSNH1321100	OmniPor™-NH2	3μm, 2.1×100mm	120A
PSNH1321150	OmniPor™-NH2	3μm, 2.1×150mm	120A

Part Number	Bonding phase	Dimension	Aperture
PSNH234650	OmniPor™-NH2 (2)	3μm, 4.6×50mm	120A
PSNH2346100	OmniPor™-NH2 (2)	3μm, 4.6×100mm	120A
PSNH2346150	OmniPor™-NH2 (2)	3μm, 4.6×150mm	120A
PSNH2346200	OmniPor™-NH2 (2)	3μm, 4.6×200mm	120A
PSNH2346250	OmniPor™-NH2 (2)	3μm, 4.6×250mm	120A
PSNH2346300	OmniPor™-NH2 (2)	3μm, 4.6×300mm	120A
PSNH2330100	OmniPor™-NH2 (2)	3μm, 3.0×100mm	120A
PSNH2330150	OmniPor™-NH2 (2)	3μm, 3.0×150mm	120A
PSNH2330250	OmniPor™-NH2 (2)	3μm, 3.0×250mm	120A
PSNH232150	OmniPor™-NH2 (2)	3μm, 2.1×50mm	120A
PSNH2321100	OmniPor™-NH2 (2)	3μm, 2.1×100mm	120A
PSNH2321150	OmniPor™-NH2 (2)	3μm, 2.1×150mm	120A
PSPH134650	OmniPor™-Phenyl phenyl column	3μm, 4.6×50mm	120A
PSPH1346100	OmniPor™-Phenyl phenyl column	3μm, 4.6×100mm	120A
PSPH1346150	OmniPor™-Phenyl phenyl column	3μm, 4.6×150mm	120A
PSPH1346200	OmniPor™-Phenyl phenyl column	3μm, 4.6×200mm	120A
PSPH1346250	OmniPor™-Phenyl phenyl column	3μm, 4.6×250mm	120A
PSPH1346300	OmniPor™-Phenyl phenyl column	3μm, 4.6×300mm	120A
PSPH1330100	OmniPor™-Phenyl phenyl column	3μm, 3.0×100mm	120A
PSPH1330150	OmniPor™-Phenyl phenyl column	3μm, 3.0×150mm	120A
PSPH1330250	OmniPor™-Phenyl phenyl column	3μm, 3.0×250mm	120A
PSPH132150	OmniPor™-Phenyl phenyl column	3μm, 2.1×50mm	120A
PSPH1321100	OmniPor™-Phenyl phenyl column	3μm, 2.1×100mm	120A
PSPH1321150	OmniPor™-Phenyl phenyl column	3μm, 2.1×150mm	120A
PS181252150	OmniPor™-C18 General purpose	2.5μm, 2.1×50mm	120A
PS1812521100	OmniPor™-C18 General purpose	2.5μm, 2.1×100mm	120A
PS1812521150	OmniPor™-C18 General purpose	2.5μm, 2.1×150mm	120A

Part Number	Bonding phase	Dimension	Aperture
PS18122150	OmniPor™-C18 General purpose	2μm, 2.1×50mm	120A
PS181221100	OmniPor™-C18 General purpose	2μm, 2.1×100mm	120A
PS181221150	OmniPor™-C18 General purpose	2μm, 2.1×150mm	120A
PS18122150	OmniPor™-C18 General purpose	1.8μm, 2.1×50mm	120A
PS181221100	OmniPor™-C18 General purpose	1.8μm, 2.1×100mm	120A
PS181221150	OmniPor™-C18 General purpose	1.8μm, 2.1×150mm	120A
PSPPS1546100	PPSP	4.6*100mm 5um	120A
PSPPS1546150	PPSP	4.6*150mm 5um	120A
PSPPS1546250	PPSP	4.6*250mm 5um	120A
PSPPS1346150	PPSP	4.6*150mm 3um	120A
PSPPS1346250	PPSP	4.6*250mm 3um	120A
PSPPS1221100	PPSP	2.1*100mm 2um	120A
PSPPS1221150	PPSP	2.1*150mm 2um	120A
PS301546150	OmniPor™-C30	4.6*150mm 5um	120A
PS301546250	OmniPor™-C30	4.6*250mm 5um	120A
PS301346150	OmniPor™-C30	4.6*150mm 3um	120A
PS301346250	OmniPor™-C30	4.6*250mm 3um	120A
PSSCA1578300	Sugar-Ca Sugar column, measure sugar	5μm, 7.8×300mm	120A
PSSCA1878300	Sugar-Ca Sugar column, measure sugar	8μm, 7.8×300mm	120A
PSSCA1546250	Sugar-Ca Sugar column, measure sugar	5μm, 4.6×250mm	120A
PSSCA1846250	Sugar-Ca Sugar column, measure sugar	8μm, 4.6×250mm	120A
PSSH1578300	Sugar-H Test PSor organic acids	5μm, 7.8×300mm	120A
PSSH1878300	Sugar-H Test PSor organic acids	8μm, 7.8×300mm	120A
PSSH1546250	Sugar-H Test PSor organic acids	5μm, 4.6×250mm	120A
PSSH1846250	Sugar-H Test PSor organic acids	8μm, 4.6×250mm	120A
PSSNA1578300	Sugar-Na	5μm, 7.8×300mm	120A
PSSNA1878300	Sugar-Na	8μm, 7.8×300mm	120A
PSSNA1546250	Sugar-Na	5μm, 4.6×250mm	120A

Part Number	Bonding phase	Dimension	Aperture
PSSNA1846250	Sugar-Na	8μm, 4.6×250mm	120A
PSPD1578300	PSDVB	5μm, 7.8×300mm	120A
PSPD1878300	PSDVB	8μm, 7.8×300mm	120A
PSPD1546250	PSDVB	5μm, 4.6×250mm	120A
PSPD1846250	PSDVB	8μm, 4.6×250mm	120A
PSHA154650	Amide column Hilic-Amide	5μm, 4.6×50mm	120A
PSHA1546100	Amide column Hilic-Amide	5μm, 4.6×100mm	120A
PSHA1546150	Amide column Hilic-Amide	5μm, 4.6×150mm	120A
PSHA1546200	Amide column Hilic-Amide	5μm, 4.6×200mm	120A
PSHA1546250	Amide column Hilic-Amide	5μm, 4.6×250mm	120A
PSHA1546300	Amide column Hilic-Amide	5μm, 4.6×300mm	120A
PSHA134650	Amide column Hilic-Amide	3μm, 4.6×50mm	120A
PSHA1346100	Amide column Hilic-Amide	3μm, 4.6×100mm	120A
PSHA1346150	Amide column Hilic-Amide	3μm, 4.6×150mm	120A
PSHA1346200	Amide column Hilic-Amide	3μm, 4.6×200mm	120A
PSHA1346250	Amide column Hilic-Amide	3μm, 4.6×250mm	120A
PSHA1346300	Amide column Hilic-Amide	3μm, 4.6×300mm	120A
PSHA1330100	Amide column Hilic-Amide	3μm, 3.0×100mm	120A
PSHA1330150	Amide column Hilic-Amide	3μm, 3.0×150mm	120A
PSHA1330250	Amide column Hilic-Amide	3μm, 3.0×250mm	120A
PSHA132150	Amide column Hilic-Amide	3μm, 2.1×50mm	120A
PSHA1321100	Amide column Hilic-Amide	3μm, 2.1×100mm	120A
PSHA1321150	Amide column Hilic-Amide	3μm, 2.1×150mm	120A
PSHA122150	Amide column Hilic-Amide	2μm, 2.1×50mm	120A
PSHA1221100	Amide column Hilic-Amide	2μm, 2.1×100mm	120A
PSHA1221150	Amide column Hilic-Amide	2μm, 2.1×150mm	120A

Part Number	Bonding phase	Dimension	Aperture
GT4650	GhostTrap™ (Ghost Column)	4.6×50mm	-
GT4050	GhostTrap™ (Ghost Column)	4.0×50mm	-
GT3050	GhostTrap™ (Ghost Column)	3.0×50mm	-
GT2150	GhostTrap™ (Ghost Column)	2.1×50mm	-
GT2133	GhostTrap™ (Ghost Column)	2.1×33mm	-

Cross Reference

Solidis™ C18 is equivalent to:		
Symmetry C18	Symmetry shield RP C18	Ultisil XB-C18
Luna C18	Luna C18(2)	Discovery C18
Hypersil BDS C18	Alltima C18	Zorbax Eclipse C18
BetaBasic C18	Platinum EPS C18	Betasil C18
Inertsil ODS-2	Inertsil ODS-3	Supelcosil LC-18-DB
Kromasil 100A C18	HyPURITY C18	
OmniPor™ AQ C18 is equivalent to:		
Aquasil C18	Atlantis C18	Ultisil AQ-C18
Synergi Hydro-RP C18	HydroBond AQ C18	Zorbax SB-AQ C18
Ultra Aqueous C18	Prontosil C18 AQ	HydroBond PS C18
Elite Sino Chrom ODS-BP		YMC-Pack ODS-AQ
OmniPor™ - C8 is equivalent to:		
Symmetry C8	Luna C8	Ultisil XB-C8
Discovery C8	Hypersil BDS C8	Luna C8(2)
Zorbax Eclipse XDB C8	BetaBasic C8	Alltima C8
Betasil C8	Inertsil C8	Platinum EPS C8
Supercosil LC-8-DB	Kromasil 100Å C8	Inertsil C8-3
YMC-Pack C8-AM	Adsorbosphere HS C8	HyPURITY C8
Cosmosil C8-MS	Nucleosil 100 C8 HD	Develosil C8

Solidis™ (wide pH range) is equivalent to:		
Brand	Series 1	Series 2
Waters	Xterra series	Xbridge series
Agilent	Extend series	
Phenomenex	Gemini series	
Welch	Xtimate	
GhostTrap™ column is equivalent to:		
Welch Ghost Buster		

Notes

Notes

PurePhase Scientific
is a trusted provider of advanced analytical and chromatography solutions serving the pharmaceutical, biotechnology, chemical, and research industries. We partner with laboratories to deliver reliable, high-quality products that enable accurate analysis, consistent results, and long-term operational performance.

Our focus is on supplying a comprehensive range of scientific instruments, chromatography systems, columns, and laboratory consumables that meet the evolving requirements of modern analytical laboratories. Each product in our portfolio is carefully selected to ensure precision, efficiency, and regulatory compliance, supporting applications from routine quality control to advanced research and method development.

At **PurePhase Scientific**,
we are committed to helping laboratories operate with confidence by providing dependable solutions, technical expertise, and responsive support. Our goal is to build long-term partnerships by delivering products and services that enhance laboratory productivity, data integrity, and analytical excellence.

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