

High Performance HPLC Columns A New Platform for HPLC and Prep





Your Specialists in Chromatography



Chosing the Right HPLC Column

Choosing the right column for your application is very important and can be a difficult exercise. However following some simple steps will help you to make the correct choice and positively impact your chromatographic results. Here are some tips :

1. Set Your Separation Goals.

Do you need **High Resolution** or **Maximum Sensitivity**? And is our **Analysis** Time crucial? These are the main questions an HPLC user should consider in the development of a method. You also need to determine wheter long column life, low operating cost, or other factors are important.

2. Packing Material.

The choice of the most appropriate media depends on the nature of your compounds and on your goals. The **Right Selectivity** of your packing to obtain a good separation in a relatively short analysis time is the base on which to select the media.

3. Column Format.

Analytical, Semi-Prep or Prep format choice depends on your application and your goals. Inner Diameter and Length will also impact the result of your separation.

Base Material

Polymer-based media such as Polystyrene DVB or Methacrylate offer higher pH stability (pH 1-14) than Silica-based material, so columns packed with these packings can be thoroughly cleaned with strong acids or bases.

However these packings are compressible and may shrink or swell with certain solvents, and they do not offer the same resolution when compared to Silica-based packings.

Silica-based media are physically much stronger and will not shrink or swell. They offer higher resolution and provide sharper peaks compared to Polymer-based material. Silica-based media are also available with a wide range of bonded phases to ensure the widest selectivity for almost any application.

Silica-Based media are compatible with a broad range of polar and non-polar mobile phases and they can be stable to a wide pH range.



Particle Shape

Silica-based media particles can be **Irregular, Spheroidal** or **Spherical** in shape.

Most modern HPLC packings are spherical. A **Spherical** shape particle offers lower back pressure, much higher performance, stability and reproducibility than irregular particles.

Irregular particles have a larger surface area, higher loadibility and they are relatively less expensive. These are the reasons why they are still commonly used in prep and process scale purifications.



Spherical



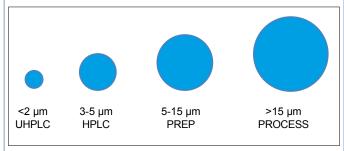
Particle Size

Smaller particle sizes give **Higher Efficiency and Resolution** than larger particle sizes but create higher back-pressure.

Larger particle sizes offer faster flow rates and lower back-pressure.

In analytical applications the typical particle sizes range is from 1.5 μ m to 10 μ m diameter, however most of the applications are performed with **3\mum and 5\mum**, which represent the best compromise between efficiency and back-pressure.

In Preparative applications larger particle sizes are commonly used (10 μm to 30 μm).





HPLC Columns Introduction

Carbon Load

For **Silica-based Reversed-Phase** packings, a carbon load percentage indicates the amount of functional bonded phase attached to the Silica-base material.

Lower amount of carbon load means that packings are more weakly hydrophobic, which may reduce retention times compared to phases with higher carbon load.

However, a higher carbon load will give higher capacity and often greater separation, especially for compounds of similar hydrophobicity.

Pore Size & Surface Area

Pore Size

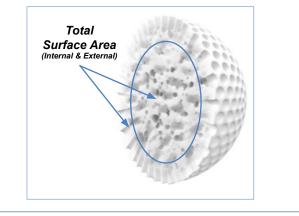
Packing materials having smaller pore sizes have higher surface area and consequently a higher capacity than packings with larger pore sizes.

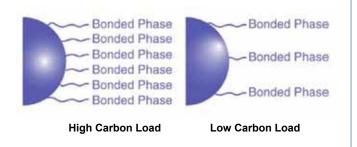
To maximize the interaction between the target molecules and the packing a correct choice of the Pore Size is critical. In general a 100Å material provide great results for small molecule analysis. For large molecules, such as Proteins and Peptides a 300Å media is typically used.

Surface Area

The Surface Area is the total available surface, most of which is inside the pores, for interaction with the target molecules.

Typically, Small pores means a larger surface area and Large pores means a smaller surface area.





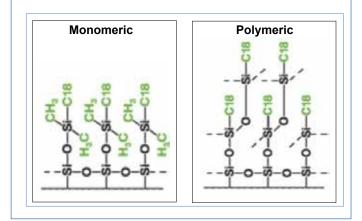
Bonding

Most commercially available reverse phase HPLC packing materials are Monomeric or Polymeric bonded phases. When a monofunctional alkylsilane reagent is used to prepare the packing material, the functional chains have a single attachment point to the silica media. These are called **Monomeric** bonded phases.

If di- or trifunctional alkylsilane reagents are used, the bonded phases have functional chains bound to the base silica particle at multiple attachment points and can involve cross-linking between chains.

These are called **Polymeric** bonded phases.

New high-purity silica phases are very stable, whether monomerically or polymerically bonded, however they differ in their selectivity.



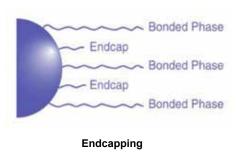
Endcapping

After the bonding procedures to obtain Silica-based reversed-phase packings, a certain amount of residual free silanol groups can remain unreacted on the silica surface.

These groups will interact with polar compounds. Endcapping the bonded phase minimizes these secondary interactions.

Partial or Total endcapping procedures are used to reduce the residual silanols on the silica surface.

Higher endcapping means less interactions with polar compounds while non-endcapped phases mean enhanced polar selectivity, for stronger retention of polar organic compounds.





HPLC Columns Introduction

HPLC Analytical, Semi-Prep and Preparative Column Formats

Choosing the right column format is critical to obtain the best performance during your analysis or purification.

Analytical Columns Format

Column Length

When starting a new HPLC method development, the user has to consider the complexity of their sample and the desired run time, in order to find the best column length for their application.

Shorter column length provides faster run times and solvent saving. Usually smaller particle size media is used in shorter column which achieves good resolution in a shorter run time, however complex samples may still need longer columns, even when using smaller particle sizes.

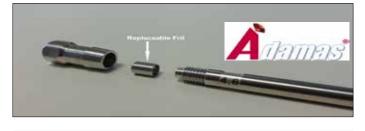


Column Leng	ths Available
20-30-50mm Column Length	Fast Separations Work best with 3 µm Particle Size
75-100-125-150mm Column Length	Standard & Hi-Resolution Separations Work best with 3-5 µm Particle Size
200-250-300mm Column Length	Standard & Hi-Resolution Separations Work best with 5-10 µm Particle Size

Replaceable Frit

In most well-known and popular HPLC Columns, when a backpressure increase occurs, whatever the reason, you have to replace the entire expensive column.

With all Sepachrom HPLC Columns you can replace the frit and significantly extend its lifetime.





Column I.D.

Smaller internal diameter columns provide better mass sensitivity, require smaller sample size injection, and reduce solvent consumption.

Wider internal diameter columns allow for larger sample sizes and minimize the negative effects of your system's dead volume due to the higher flowrates.

2.1mmID columns work best with a microbore flow cell at your detector and an internal loop injector otherwise you have to tolerate some loss in efficiency and resolution due to system dead volumes.



Analytical Column I.D. Available					
2.1mm Column I.D.	High Sensitiivity and Low Low Sample Volume Best use with Microbore Cell and Internal Sample Loop Valve.				
3.0mm Column I.D.	High Sensitivity and ideal to reduce sovent consumption Work with standard HPLC instrumentation				
4.0mm Column I.D.	Standard Separations Work with standard HPLC instrumentation				
4.6mm Column I.D.	Standard Separations Work with standard HPLC instrumentation				

Full-Guard Cartridges

How can I best protect my HPLC column?

Full-Guard is the convenient protection system for your HPLC column and allows you to change the Guard Cartridge in seconds.

Select the suitable reusable Holder (In-Line or Direct Connect). They work with all Full-Guard Cartridges with following IDs :

2.1 - 3.0 - 4.0 - 4.6 mm ID





info@sepachrom.com

HPLC Columns Introduction

Semi-Prep and Preparative Columns Format

Preparative Scale-Up

In Chromatography the objectives of Preparative chromatography differs from those of Analytical separations.

In Preparative chromatography Speed and Sensitivity are usually less important than Loading, Recovery and Product Purity.

Here the 6 common steps of Preparative Scale-Up method development :

Step 1 : Method Optimization

The Analytical method is optimized to achieve the maximum loadability through the adjustment of the mobile phase and packing selectivity.

Step.2 : Loading Study

This has to determine the capacity of the stationary phase. The sample loading also depends on the complexity of the mixture.

Step 3 : Mass Determination

The total mass to purify is used to balance the necessary throughput, purity and yield.

Step 4 : Scale-Up

The column size is calculated based on the output requirements.

$$D = diameter \qquad L = Length$$

$$Load_{prep} = Load_{analytical} \times \left(\frac{D_{prep}}{D_{analytical}}\right)^2 \times \frac{L_{prep}}{L_{analytical}}$$

Step 5 : Linear Velocity

When scaling-up, the mobile phase flow rate should be adjusted proportionally to the cross-sectional area of the column to maintain consistent linear velocity and retention times.

Flow Rateprep = Flow Rateanalytical X
$$\left(\frac{D_{prep}}{D_{analytical}}\right)^2$$

Step 6 : Gradient

To get the resolution achieved on an analytical column while increasing column diameter, the gradient shape must be maintained by keeping the ratio of the gradient volume to the column volume constant.

Injection Load and Flow Rate Table						
Column I.D.	Load*	Flow Rate				
4.6mm Column I.D.	х	1 mL/min				
7.8mm Column I.D.	3X	2.88 mL/min				
10mm Column I.D.	5X	4.73 mL/min				
21.2mm Column I.D.	25X	21.2 mL/min				
30mm Column I.D.	45X	42.5 mL/min				
50mm Column I.D.	120X	118 mL/min				
100mm Column I.D.	500X	473 mL/min				

*The Load Injection values suggested in the above table refer to columns with same length.

Column Lengths & IDs

Our Preparative columns are available in the following lengths : 100mm - 150mm - 250mm and 7.8mm - 10mm - 21.2mm - 30mm & 50mm ID



Semi-Prep	and Preparative Column I.D. Available
7.8mm Column I.D.	Semi-Prep - Very Small quantity to purify. Sample loading 3x vs. Analytical column I.D. (4.6mmID)
10.0mm Column I.D.	Semi-Prep - Small quantity to purify. Sample loading 5x vs. Analytical column I.D. (4.6mmID)
21.2mm Column I.D.	Lab Scale Prep - Standard Purification Sample loading 25x vs. Analytical column I.D. (4.6mmID)
30 & 50mm Column I.D.	Preparative - High quanitty to purify Sample loading 45x120x vs. Analytical column I.D. (4.6mmID)

Prep Full-Guard Cartridges

Often in a purification the sample contains undesirable molecules that can damage the Prep HPLC Column.

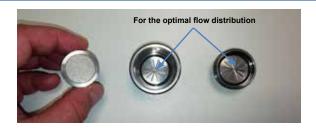
Expensive Preparative HPLC columns deserve the best protection.

Select the suitable reusable Holder according to the Prep Column I.D. and the correct Prep Guard Cartridges packed with the same material of the Prep Column.

Prep Guard Cartridges are available with 10mm length and in

7.8mm - 10mm - 21.2mm - 30mm ID

	Full-Guard Prep Holder
CX0120	Full-Guard Prep Holder for 7.8 & 10mm Column I.D.
CX0120	Full-Guard Prep Holder for 21.2mm Column I.D.
CX0120	Full-Guard Prep Holder for 30 & 50mm Column I.D.





Adamas[®]

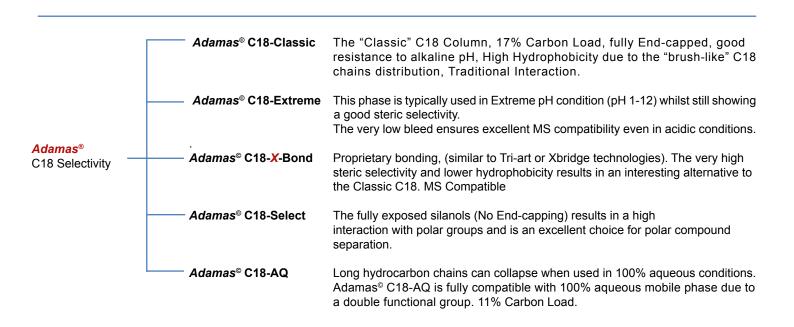
Ultra High Purity Silica Platform for HPLC

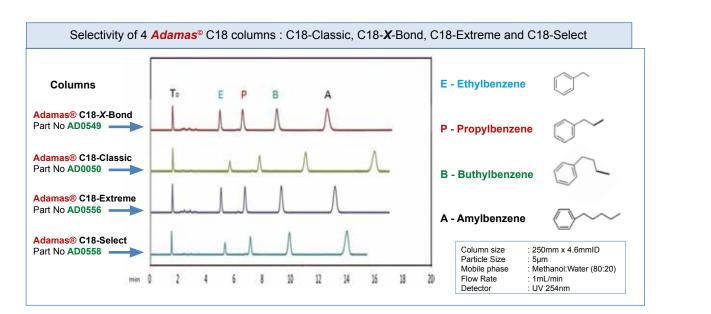
Adamas[®] is a media platform for analytical and preparative scale-up application based on Ultra High-Purity silica. The very low metal content ensures high stability, high performance and low bleed columns for high demanding applications.

Often, in a method development process and in an effort to improve sample throughput, users will run a "standard method" on a "standard single media; *Adamas*[®] has a wide range of chemistries, including five C18 phases, which ensure the maximum selectivity choice to achieve your best separation. A correct strategy will compare phases with complementary selectivity which gives confidence that one of them will produce the required separation. Resolution — that's the key!



- Better Peak Symmetry
- : Ultra High-purity silica eliminates peak tailing problems
- Long Column Life : Exceptional column stability minimizes downtime and reduces cost
- Ideal for Critical Analysis : Low to no detectable column bleed
- 5 Selectivities of C18 Phases
- : Optimizes retention, resolution, and analysis time





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Adamas[®] - HPLC Columns - Reversed Phase



Adamas [®] - Silica Specifications						
Material	Ultra High Purity Spherical Silica					
Porosity	100Å					
Surface Area	310 m²/g					
Area	0.80 mL/g					
Particle Size	3µ - 5µ - 7µ - 10µ - 15µ					
Metal Content	Typical					
	Na, Mg, Al, Ca, Fe, Zr	< 1mg/kg				

Adamas[®] C18-Classic

- **Reversed-Phase HPLC Columns**
- Monomeric Bonding Fully End-capped High Hydrophobicity Phase
- USP L-Code : L1 •

Ordering Information						
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm
	3μ	50mm	AD0041	AD0051	AD0061	AD0071
	Зµ	75mm	AD0042	AD0052	AD0062	AD0072
	3μ	100mm	AD0043	AD0053	AD0063	AD0073
	Зµ	125mm	AD0044	AD0054	AD0064	AD0074
	Зµ	150mm	AD0045	AD0055	AD0065	AD0075
	Зµ	200mm	ASK	ASK	ASK	ASK
	3μ	250mm	ASK	ASK	ASK	ASK
	Full-Guard - 3µ*	10mm	CD0183	CD0182	CD0181	CD0180
Adamas® C18-Classic	5μ	50mm	ASK	ASK	ASK	ASK
	5μ	75mm	ASK	ASK	ASK	ASK
	5μ	100mm	AD0046	AD0056	AD0066	AD0076
	5μ	125mm	AD0047	AD0057	AD0067	AD0077
	5μ	150mm	AD0048	AD0058	AD0068	AD0078
	5μ	200mm	AD0049	AD0059	AD0069	AD0079
	5μ	250mm	AD0050	AD0060	AD0070	AD0080
	5μ	300mm	AD0528	AD0541	AD0554	AD0567
	Full-Guard - 5µ*	10mm	CD0187	CD0186	CD0185	CD0184

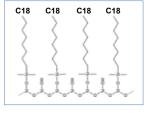


"Brush-Like" C18 The chains distribution.

C18 hydrocarbon chains are linked to the surface silica silanols.

A very common bonding is named "brush-like" because the long C18 chains looks like bristles on a brush. This type of bonding enhances

the hydrophobic interactions.

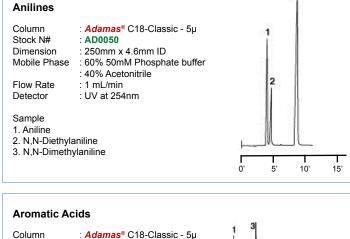


3

We are committed to providing you the High-Quality HPLC columns and technical support.

Each Adamas® HPLC column is individually tested under our strictly QC Test parameters prior to shipment. All our HPLC columns are fully guaranteed for best performance.

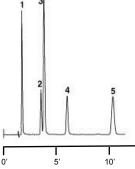




Stock N# : AD0048 Dimension : 150mm x 4.6mm ID Mobile Phase : 60% 50mM Phosphate buffer 40% Methanol Flow Rate 1 mL/min Detector : UV at 254nm



- 1. Vanilmandelic Acid (VMA) 2. Homovanilic Acid (HVA)
- 3. Vanilic Acid
- 4. Salicylic Acid
- 5. Benzoic Acid





Adamas[®] - HPLC Columns - Reversed Phase

Adamas® C18-Extreme

Reversed-Phase HPLC Columns

- Excellent Performance, compatible with Extreme pH Conditions (1-12)
- Good Steric Selectivity MS Compatible
- USP L-Code : L1

	Ordering Information						
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm	
	3μ	50mm	AD0121	AD0131	AD0141	AD0151	
	3μ	75mm	AD0122	AD0132	AD0142	AD0152	
	3μ	100mm	AD0123	AD0133	AD0143	AD0153	
	3μ	125mm	AD0124	AD0134	AD0144	AD0154	
	3μ	150mm	AD0125	AD0135	AD0145	AD0155	
	3μ	200mm	ASK	ASK	ASK	ASK	
	3μ	250mm	ASK	ASK	ASK	ASK	
	Full-Guard - 3µ*	10mm	CD0199	CD0198	CD0197	CD0196	
Adamas® C18-Extreme	5μ	50mm	ASK	ASK	ASK	ASK	
	5μ	75mm	ASK	ASK	ASK	ASK	
	5μ	100mm	AD0108	AD0109	AD0088	AD0089	
	5μ	125mm	AD0170	AD0176	AD0128	AD0129	
	5μ	150mm	AD0230	AD0236	AD0177	AD0178	
	5μ	200mm	AD0430	AD0436	AD0237	AD0238	
	5μ	250mm	AD0556	AD0557	AD0437	AD0438	
	5μ	300mm	AD0208	AD0218	AD0148	AD0158	
	Full-Guard - 5µ*	10mm	CD0203	CD0202	CD0201	CD0200	



Full-Guard System

Sepachrom **Full-Guard** system is designed to fully protect your column.

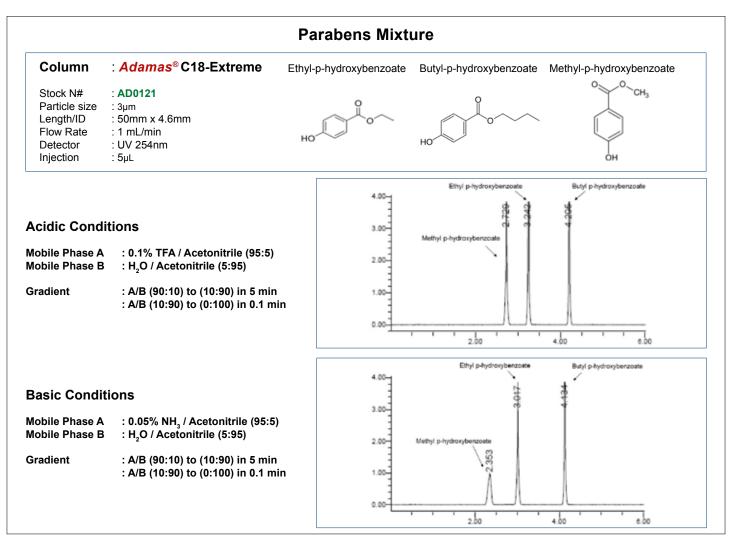
Replacing the Guard Cartridge is easy and takes just a few seconds.

The holder is reusable and works with all analytical I.D columns (2.1-3.0-4.0-4.6mm IDs).



* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part No CD0100 / Incl ine Connection - Part No C





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Adamas[®] C18-X-Bond

Reversed-Phase HPLC Columns

- Proprietary Bonding Very High Steric Selectivity
- MS Compatible Low Bleeding in Acidic Condition
- USP L-Code : L1

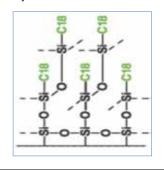
Ordering Information						
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm
	3μ	50mm	AD0081	AD0091	AD0101	AD0111
	3μ	75mm	AD0082	AD0092	AD0102	AD0112
	3μ	100mm	AD0083	AD0093	AD0103	AD0113
	3μ	125mm	AD0084	AD0094	AD0104	AD0114
	3μ	150mm	AD0085	AD0095	AD0105	AD0115
	Зµ	200mm	ASK	ASK	ASK	ASK
	3μ	250mm	ASK	ASK	ASK	ASK
	Full-Guard - 3µ*	10mm	CD0191	CD0190	CD0189	CD0188
Adamas® C18-X-Bond	5μ	50mm	ASK	ASK	ASK	ASK
	5μ	75mm	ASK	ASK	ASK	ASK
	5μ	100mm	AD0106	AD0107	AD0086	AD0087
	5μ	125mm	AD0166	AD0167	AD0126	AD0127
	5μ	150mm	AD0226	AD0227	AD0168	AD0169
	5μ	200mm	AD0426	AD0427	AD0228	AD0229
	5μ	250mm	AD0549	AD0555	AD0428	AD0429
	5μ	300mm	AD0207	AD0217	AD0147	AD0157
	Full-Guard - 5µ*	10mm	CD0195	CD0194	CD0193	CD0192





Polymeric Bonding.

In the vertically polymerized stationary phase, the trichlorosilane derivatization results in a very complex cross-linked surface, including multiple layers.



* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available :

Full-Guard Holder - Direct Connection - Part No CD0100 / In-Line Connection - Part No CD0101

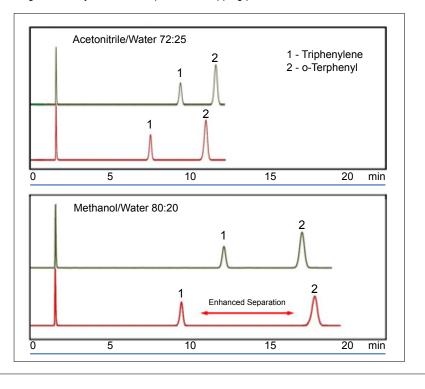
Steric Selectivity & Bonding Technology

There are many factors that influence the performance of a high performance liquid chromatography (HPLC) stationary phase. Steric selectivity means the phase's ability to separate planar structures (triphenylene) and those with stereo spatial volume (o-terphenyl). Our proprietary bonding provides a higher steric selectivity compared to monomeric bonded phases. The steric selectivity of a column also depends on the solvent strength.

Why do we want to characterize column selectivity? Mainly to choose a column of very different selectivity.

In method development there is sometimes the need to change selectivity in order to separate overlapping peaks.

Steric Selectivity Test operative conditions: Column 1 (Green) : Adamas® C18-Classic Column 2 (Red) : Adamas[®] C18-X-Bond Particle size : 5u Length : 150mm ID : 4.6mm Flow Rate : 1 mL/min Detector : UV 254nm Triphenylene o-Terphenyl





Adamas® - HPLC Columns - Reversed Phase

Adamas® C18-Select

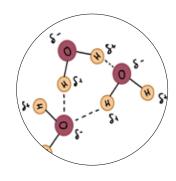
Reversed-Phase HPLC Columns

Monomeric Bonding and NO End-capping (Leaving Free Surface Silanols)

- Ideal for Polar Compounds and Vitamin Analysis
- USP L-Code : L1

	Ordering Information						
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm	
	3μ	50mm	AD0161	AD0171	AD0181	AD0191	
	3μ	75mm	AD0162	AD0172	AD0182	AD0192	
	3μ	100mm	AD0163	AD0173	AD0183	AD0193	
	3μ	125mm	AD0164	AD0174	AD0184	AD0194	
	3μ	150mm	AD0165	AD0175	AD0185	AD0195	
	3μ	200mm	ASK	ASK	ASK	ASK	
	3μ	250mm	ASK	ASK	ASK	ASK	
	Full-Guard - 3µ*	10mm	CD0207	CD0206	CD0205	CD0204	
Adamas® C18-Select	5μ	50mm	ASK	ASK	ASK	ASK	
	5μ	75mm	ASK	ASK	ASK	ASK	
	5μ	100mm	AD0110	AD0116	AD0090	AD0096	
	5µ	125mm	AD0179	AD0180	AD0130	AD0136	
	5μ	150mm	AD0239	AD0240	AD0186	AD0187	
	5μ	200mm	AD0439	AD0440	AD0406	AD0407	
	5μ	250mm	AD0558	AD0562	AD0523	AD0529	
	5μ	300mm	AD0209	AD0219	AD0149	AD0159	
	Full-Guard - 5µ*	10mm	CD0211	CD0210	CD0209	CD0208	





* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part.No CD0100 / In-Line Connection - Part.No CD0101



Just Wondering

Adamas is a word of ancient Greek origin $(\alpha \delta \alpha \mu \alpha \varsigma)$ and later Latin (ădămās). The meaning of **Adamas** is **Invincible** and **Unyelding** - like a **Diamond**.

Diamonds are well known for their **hardness** and **purity**, which are the characteristics that distinguishes our HPLC Media.

Point of Interest :

Although new resources for diamonds are being explored and discovered, the supply of these gems remains limited.

This is understandable once you learn that more than 250 tons of ore need to be blasted, crushed and processed to yield just one carat of rough diamond. Further, only 20 percent of all rough diamonds are suitable for gem cutting.

Clarity is an indication of a diamond's purity. Clarity is determined by a diamond's naturally occurring internal characteristics. These characteristics are sometimes not visible to the naked eye and they are what make each diamond unique.

The characteristics, or inclusions, may look like crystals, feathers, clouds or dark spots and the quantity, size, and location of these inclusions does have an effect on a diamond's value. Diamonds with fewer and smaller inclusions are generally more brilliant, assuming that the colour and cut are the same.

A diamond purity is graded by its relative departure from "flawless"-- the complete absence of inclusions under 10x magnification.

Less than 1% of all diamonds ever found have had no inclusions and can be called flawless (FL) without any inclusions.





Adamas[®] C18-AQ

Reversed-Phase HPLC Columns

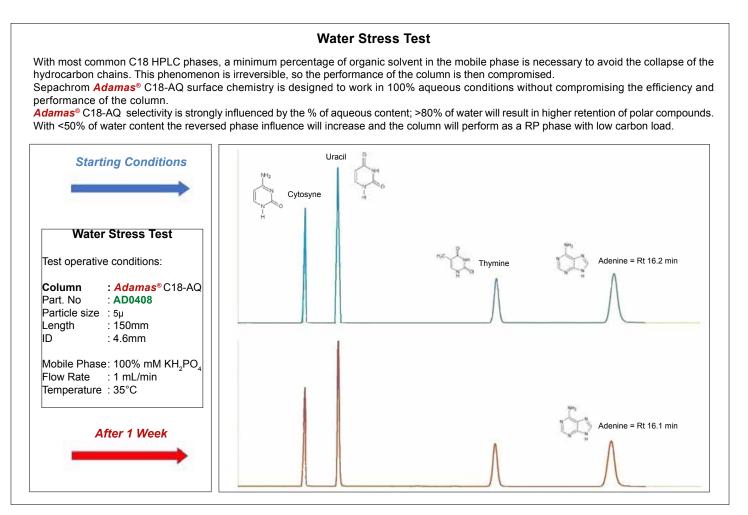
- Hydrophilic Surface C18 Phase
- Compatible with 100% Aqueous Mobile Phase
- For Polar Compounds and Vitamins
- USP L-Code : L1

	Ordering Information						
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm	
	3μ	50mm	AD0201	AD0211	AD0221	AD0231	
	3μ	75mm	AD0202	AD0212	AD0222	AD0232	
	3μ	100mm	AD0203	AD0213	AD0223	AD0233	
	3μ	125mm	AD0204	AD0214	AD0224	AD0234	
	3μ	150mm	AD0205	AD0215	AD0225	AD0235	
	3μ	200mm	ASK	ASK	ASK	ASK	
	3μ	250mm	ASK	ASK	ASK	ASK	
	Full-Guard - 3µ*	10mm	CD0215	CD0214	CD0213	CD0212	
Adamas® C18-AQ	5μ	50mm	ASK	ASK	ASK	ASK	
	5μ	75mm	ASK	ASK	ASK	ASK	
	5μ	100mm	AD0117	AD0118	AD0097	AD0098	
	5μ	125mm	AD0188	AD0189	AD0137	AD0138	
	5μ	150mm	AD0408	AD0409	AD0190	AD0196	
	5μ	200mm	AD0530	AD0531	AD0410	AD0416	
	5μ	250mm	AD0568	AD0569	AD0532	AD0536	
	5μ	300mm	AD0210	AD0220	AD0150	AD0160	
	Full-Guard - 5µ*	10mm	CD0219	CD0218	CD0217	CD0216	





* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part.No CD0100 / In-Line Connection - Part.No CD0101





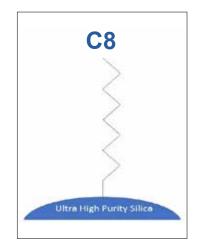
Adamas® C8

Reversed-Phase HPLC Columns

- Polymeric Bonding and End-capped.
- Carbon Load : 9.5%
- Less Hydrophobic than C18 Phases.
- USP L-Code : L7

	Ordering Information						
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm	
	3μ	50mm	AD0281	AD0291	AD0301	AD0311	
	3μ	75mm	AD0282	AD0292	AD0302	AD0312	
	3μ	100mm	AD0283	AD0293	AD0303	AD0313	
	3μ	125mm	AD0284	AD0294	AD0304	AD0314	
	3μ	150mm	AD0285	AD0295	AD0305	AD0315	
	3μ	200mm	ASK	ASK	ASK	ASK	
	3μ	250mm	ASK	ASK	ASK	ASK	
	Full-Guard - 3µ*	10mm	CD0119	CD0118	CD0117	CD0116	
Adamas® C8	5μ	50mm	ASK	ASK	ASK	ASK	
	5μ	75mm	ASK	ASK	ASK	ASK	
	5μ	100mm	AD0286	AD0296	AD0306	AD0316	
	5μ	125mm	AD0287	AD0297	AD0307	AD0317	
	5μ	150mm	AD0288	AD0298	AD0308	AD0318	
	5μ	200mm	AD0289	AD0299	AD0309	AD0319	
	5μ	250mm	AD0290	AD0300	AD0310	AD0320	
	5μ	300mm	AD0526	AD0539	AD0552	AD0565	
	Full-Guard - 5µ*	10mm	CD0123	CD0122	CD0121	CD0120	





Adamas® C4

Reversed-Phase HPLC Columns

- Polymeric Bonding and End-capped
- Carbon Load : 7.0%
- Less Hydrophobic than C18 & C8 Phases.
- USP L-Code : L26

		Orderin	g Information			
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm
	3μ	50mm	AD0241	AD0251	AD0261	AD0271
	Зµ	75mm	AD0242	AD0252	AD0262	AD0272
	Зµ	100mm	AD0243	AD0253	AD0263	AD0273
	Зµ	125mm	AD0244	AD0254	AD0264	AD0274
	3μ	150mm	AD0245	AD0255	AD0265	AD0275
	Зµ	200mm	ASK	ASK	ASK	ASK
	3μ	250mm	ASK	ASK	ASK	ASK
	Full-Guard - 3µ*	10mm	CD0175	CD0174	CD0173	CD0172
Adamas® C4	5μ	50mm	ASK	ASK	ASK	ASK
	5μ	75mm	ASK	ASK	ASK	ASK
	5μ	100mm	AD0246	AD0256	AD0266	AD0276
	5μ	125mm	AD0247	AD0257	AD0267	AD0277
	5μ	150mm	AD0248	AD0258	AD0268	AD0278
	5μ	200mm	AD0249	AD0259	AD0269	AD0279
	5μ	250mm	AD0250	AD0260	AD0270	AD0280
	5μ	300mm	AD0527	AD0540	AD0553	AD0566
	Full-Guard - 5µ*	10mm	CD0179	CD0178	CD0177	CD0176

* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part.No CD0100 / In-Line Connection - Part.No CD0101

www.sepachrom.com



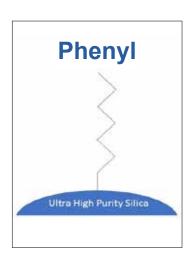
Adamas® Phenyl

Reversed-Phase HPLC Columns

- Polymeric Bonding and End-capped.
- Carbon Load : 11.0%
- USP L-Code : L11

Ordering Information										
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm				
	3μ	50mm	AD0441	AD0451	AD0461	AD0471				
	3μ	75mm	AD0442	AD0452	AD0462	AD0472				
	3μ	100mm	AD0443	AD0453	AD0463	AD0473				
	3μ	125mm	AD0444	AD0454	AD0464	AD0474				
	3μ	150mm	AD0445	AD0455	AD0465	AD0475				
	3μ	200mm	ASK	ASK	ASK	ASK				
	3μ	250mm	ASK	ASK	ASK	ASK				
	Full-Guard - 3µ*	10mm	CD0143	CD0142	CD0141	CD0140				
Adamas® PHENYL	5μ	50mm	ASK	ASK	ASK	ASK				
	5μ	75mm	ASK	ASK	ASK	ASK				
	5μ	100mm	AD0446	AD0456	AD0466	AD0476				
	5μ	125mm	AD0447	AD0457	AD0467	AD0477				
	5μ	150mm	AD0448	AD0458	AD0468	AD0478				
	5μ	200mm	AD0449	AD0459	AD0469	AD0479				
	5μ	250mm	AD0450	AD0460	AD0470	AD0480				
	5μ	300mm	AD0522	AD0535	AD0548	AD0561				
	Full-Guard - 5µ*	10mm	CD0147	CD0146	CD0145	CD0144				





* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part No CD0100 / In-Line Connection - Part No CD0101

Adamas[®] Phenyl-Hexyl Reversed-Phase HPLC Columns

- **Proprietary Bonding.**
- USP L-Code : L11



Unique Reversed-Phase Selectivity, complementary to C18 phase, ideal for Polar Aromatic and Heterocyclic compounds separation.

		Orderin	g Information		•	
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm
	3μ	50mm	AD0798	AD0805	AD0810	AD0816
	3μ	75mm	AD0799	AD0806	AD0811	AD0817
	3μ	100mm	AD0800	AD0807	AD0812	AD0818
	3μ	125mm	AD0801	AD0808	AD0813	AD0819
	3μ	150mm	AD0802	AD0809	AD0814	AD0820
	3μ	200mm	ASK	ASK	ASK	ASK
	3μ	250mm	ASK	ASK	ASK	ASK
	Full-Guard - 3µ*	10mm	CD0259	CD0258	CD0257	CD0256
Adamas [®] PHENYL-HEXYL	5μ	50mm	ASK	ASK	ASK	ASK
	5μ	75mm	ASK	ASK	ASK	ASK
	5μ	100mm	AD0796	AD0797	AD0794	AD0795
	5μ	125mm	AD0822	AD0823	AD0803	AD0804
	5µ	150mm	AD0828	AD0829	AD0824	AD0825
	5µ	200mm	AD0832	AD0833	AD0830	AD0831
	5μ	250mm	AD0836	AD0837	AD0834	AD0835
	5µ	300mm	AD0826	AD0827	AD0815	AD0821
	Full-Guard - 5µ*	10mm	CD0263	CD0262	CD0261	CD0260



* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available :

Full-Guard Holder - Direct Connection - Part No CD0100 / In-Line Connection - Part No CD0101



Adamas[®] - HPLC Columns - Normal Phase

Adamas[®] - Normal-Phase HPLC Columns

- Ultra High Purity Spherical Silica
- Diol, Cyano, Amino, Silica and HILIC phases
- 100Å Porosity
- 310 m²/g Surface Area

Normal-Phase						
Carbon Load						
Diol	4.0%					
Cyano	6.5%					
Amino	4.0%					
Silica	n/a					
HILIC	n/a					



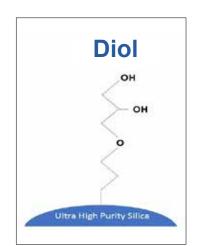
Adamas[®] Diol

Normal-Phase HPLC Columns

Provide Unique Selectivity -

- Alternative to Silica phase Reduced Interaction of Polar Compounds
- USP L-Code : L20

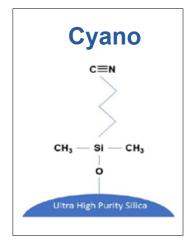
	Ordering Information									
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm				
	3μ	50mm	AD0361	AD0371	AD0381	AD0391				
	3μ	75mm	AD0362	AD0372	AD0382	AD0392				
	3μ	100mm	AD0363	AD0373	AD0383	AD0393				
	3μ	125mm	AD0364	AD0374	AD0384	AD0394				
	3μ	150mm	AD0365	AD0375	AD0385	AD0395				
	3μ	200mm	ASK	ASK	ASK	ASK				
	3μ	250mm	ASK	ASK	ASK	ASK				
	Full-Guard - 3µ*	10mm	CD0167	CD0166	CD0165	CD0164				
Adamas® Diol	5µ	50mm	ASK	ASK	ASK	ASK				
	5µ	75mm	ASK	ASK	ASK	ASK				
	5µ	100mm	AD0366	AD0376	AD0386	AD0396				
	5μ	125mm	AD0367	AD0377	AD0387	AD0397				
	5µ	150mm	AD0368	AD0378	AD0388	AD0398				
	5µ	200mm	AD0369	AD0379	AD0389	AD0399				
	5μ	250mm	AD0370	AD0380	AD0390	AD0400				
	5μ	300mm	AD0524	AD0537	AD0550	AD0563				
	Full-Guard - 5µ*	10mm	CD0171	CD0170	CD0169	CD0168				



Adamas[®] Cyano Normal-Phase HPLC Columns

- **Polymeric Bonding**
- Very Stable Cyano phase USP L-Code : L10

	Ordering Information										
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm					
	3μ	50mm	AD0321	AD0331	AD0341	AD0351					
	3μ	75mm	AD0322	AD0332	AD0342	AD0352					
	3μ	100mm	AD0323	AD0333	AD0343	AD0353					
	3μ	125mm	AD0324	AD0334	AD0344	AD0354					
	3μ	150mm	AD0325	AD0335	AD0345	AD0355					
	3μ	200mm	ASK	ASK	ASK	ASK					
	3μ	250mm	ASK	ASK	ASK	ASK					
	Full-Guard - 3µ*	10mm	CD0127	CD0126	CD0125	CD0124					
Adamas® Cyano	5µ	50mm	ASK	ASK	ASK	ASK					
-,	5μ	75mm	ASK	ASK	ASK	ASK					
	5µ	100mm	AD0326	AD0336	AD0346	AD0356					
	5μ	125mm	AD0327	AD0337	AD0347	AD0357					
	5µ	150mm	AD0328	AD0338	AD0348	AD0358					
	5μ	200mm	AD0329	AD0339	AD0349	AD0359					
	5μ	250mm	AD0330	AD0340	AD0350	AD0360					
	5μ	300mm	AD0525	AD0538	AD0551	AD0564					
	Full-Guard - 5µ*	10mm	CD0131	CD0130	CD0129	CD0128					



3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part No CD0100 / In-Line Connection - Part No CD0101



Adamas[®] Amino

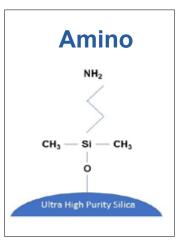
Normal-Phase HPLC Columns

Amino Groups offer Polar Selectivity in RP & NP, Ion-exchange or HILIC conditions

- Ideal for Carbohydrate analysis
- USP L-Code : L8

		Orderin	g Information	I		
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm
	3μ	50mm	AD0001	AD0011	AD0021	AD0031
	3μ	75mm	AD0002	AD0012	AD0022	AD0032
	3μ	100mm	AD0003	AD0013	AD0023	AD0033
	3μ	125mm	AD0004	AD0014	AD0024	AD0034
	3μ	150mm	AD0005	AD0015	AD0025	AD0035
	3μ	200mm	ASK	ASK	ASK	ASK
	3μ	250mm	ASK	ASK	ASK	ASK
	Full-Guard - 3µ*	10mm	CD0135	CD0134	CD0133	CD0132
Adamas [®] Amino	5μ	50mm	ASK	ASK	ASK	ASK
	5μ	75mm	ASK	ASK	ASK	ASK
	5µ	100mm	AD0006	AD0016	AD0026	AD0036
	5μ	125mm	AD0007	AD0017	AD0027	AD0037
	5μ	150mm	AD0008	AD0018	AD0028	AD0038
	5μ	200mm	AD0009	AD0019	AD0029	AD0039
	5μ	250mm	AD0010	AD0020	AD0030	AD0040
	5μ	300mm	AD0533	AD0546	AD0559	AD0572
	Full-Guard - 5µ*	10mm	CD0139	CD0138	CD0137	CD0136





Adamas[®] Silica

Normal-Phase HPLC Columns

The Base Material for all Adamas® HPLC Column line.

USP L-Code : L3

Ordering Information									
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm			
	3μ	50mm	AD0481	AD0491	AD0501	AD0511			
	3μ	75mm	AD0482	AD0492	AD0502	AD0512			
	3μ	100mm	AD0483	AD0493	AD0503	AD0513			
	3μ	125mm	AD0484	AD0494	AD0504	AD0514			
	3μ	150mm	AD0485	AD0495	AD0505	AD0515			
	3μ	200mm	ASK	ASK	ASK	ASK			
	3μ	250mm	ASK	ASK	ASK	ASK			
	Full-Guard - 3µ*	10mm	CD0151	CD0150	CD0149	CD0148			
Adamas® Silica	5µ	50mm	ASK	ASK	ASK	ASK			
••	5μ	75mm	ASK	ASK	ASK	ASK			
	5µ	100mm	AD0486	AD0496	AD0506	AD0516			
	5µ	125mm	AD0487	AD0497	AD0507	AD0517			
	5µ	150mm	AD0488	AD0498	AD0508	AD0518			
	5µ	200mm	AD0489	AD0499	AD0509	AD0519			
	5µ	250mm	AD0490	AD0500	AD0510	AD0520			
	5µ	300mm	AD0521	AD0534	AD0547	AD0560			
	Full-Guard - 5µ*	10mm	CD0155	CD0154	CD0153	CD0152			



* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part.No CD0100 / In-Line Connection - Part.No CD0101



Adamas[®] - HPLC Columns - HILIC

Adamas® HILIC

Normal-Phase HPLC Columns

- Monomeric Bonding and NO End-capping (Leaving Free Surface Silanols)
- Ideal for Polar Compounds and Vitamin Analysis
- USP L-Code : L3

		Orderin	g Information	l i		
Phase	Particle Size	Length / ID	4.6mm	4.0mm	3.0mm	2.1mm
	3μ	50mm	AD0401	AD0411	AD0421	AD0431
	3μ	75mm	AD0402	AD0412	AD0422	AD0432
	3μ	100mm	AD0403	AD0413	AD0423	AD0433
	3μ	125mm	AD0404	AD0414	AD0424	AD0434
	3μ	150mm	AD0405	AD0415	AD0425	AD0435
	3μ	200mm	ASK	ASK	ASK	ASK
	3μ	250mm	ASK	ASK	ASK	ASK
	Full-Guard - 3µ*	10mm	CD0159	CD0158	CD0157	CD0156
Adamas® HILIC	5μ	50mm	ASK	ASK	ASK	ASK
	5µ	75mm	ASK	ASK	ASK	ASK
	5µ	100mm	AD0119	AD0120	AD0099	AD0100
	5μ	125mm	AD0197	AD0198	AD0139	AD0140
	5μ	150mm	AD0417	AD0418	AD0199	AD0200
	5μ	200mm	AD0542	AD0543	AD0419	AD0420
	5μ	250mm	AD0570	AD0571	AD0544	AD0545
	5μ	300mm	AD0206	AD0216	AD0146	AD0156
	Full-Guard - 5µ*	10mm	CD0163	CD0162	CD0161	CD0160





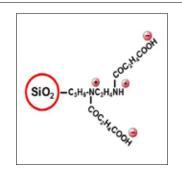
* 3/pkg - Full-Guard Cartridges require Full-Guard Holder. Two versions available : Full-Guard Holder - Direct Connection - Part.No CD0100 / In-Line Connection - Part.No CD0101

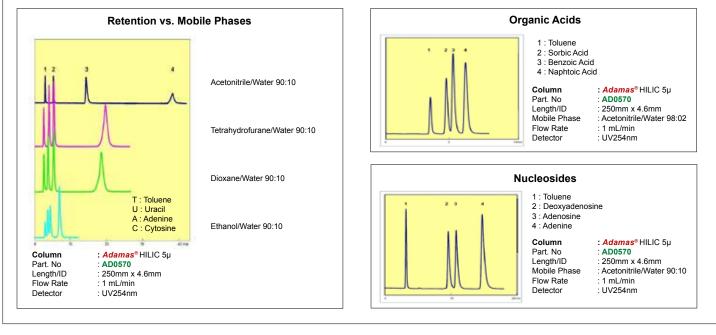
Hydrophilic Interaction Chromatography HILIC

Hydrophilic Interaction Chromatography (HILIC) is a technique used to separate polar or ionic compunds. HILIC uses polar stationary phases and organic mobile phases as normally used in Normal Phase Chromatography (NP). When a polar stationary phase is used with a mobile phase high in organic concentration, the water (more polar) will adsorb on the surface creating a semi-stagnant, water-rich stationary phase and a water depleted

mobile phase. Polar analytes can then partition in to aqueous-enriched phase and can undergo ionic cation exchange interaction with silanol groups. This will enhance the retention of polar compounds and results in their high loading capacities.

Adamas[®] HILIC media has bipolar functional groups, covalently bonded on to the silica surface and can be used for separation and large scale purification of a wide range of hydrophilic compounds.







Adamas[®] - HPLC Columns - Preparative

Adamas®

Preparative HPLC Columns - Hardware

- Highest Quality Stainless Steel and Smooth Surface
- High Performance Flow Distribution Design





Adamas[®]

Preparative HPLC Columns - Normal Phase

Ultra Pure Silica Gel

- Columns with different sizes are available on request.
- Guard Cartridges require suitable Full-Guard Holder

			O	rdering Inform	ation			
Phase	Particle Size	Length / ID	7.8mm	10.0mm	21.2mm	30.0mm	50.0mm	Guard
	5μ	100mm	AD0578	AD0587	AD0596	ASK	ASK	
	5μ	150mm	AD0579	AD0588	AD0597	ASK	ASK	
	5μ	250mm	AD0580	AD0589	AD0598	ASK	ASK	
	10µ	100mm	AD0581	AD0590	AD0599	ASK	ASK	ASK
Adamas® Silica	10µ	150mm	AD0582	AD0591	AD0600	ASK	ASK	10mmL x ID
Silica	10µ	250mm	AD0583	AD0592	AD0601	ASK	ASK	(7.8-10-21.2-30-50mm)
	15µ	100mm	AD0584	AD0593	AD0602	ASK	ASK	
	15µ	150mm	AD0585	AD0594	AD0603	ASK	ASK	
	15µ	250mm	AD0586	AD0595	AD0604	ASK	ASK	
	5μ	100mm	AD0605	AD0614	AD0623	ASK	ASK	
	5µ	150mm	AD0606	AD0615	AD0624	ASK	ASK	
	5μ	250mm	AD0607	AD0616	AD0625	ASK	ASK	
	10µ	100mm	AD0608	AD0617	AD0626	ASK	ASK	ASK
Adamas [®] Diol	10µ	150mm	AD0609	AD0618	AD0627	ASK	ASK	10mmL x ID
Bioi	10µ	250mm	AD0610	AD0619	AD0628	ASK	ASK	(7.8-10-21.2-30-50mm)
	15µ	100mm	AD0611	AD0620	AD0629	ASK	ASK	
	15µ	150mm	AD0612	AD0621	AD0630	ASK	ASK	
	15µ	250mm	AD0613	AD0622	AD0631	ASK	ASK	
	5μ	100mm	AD0632	AD0641	AD0650	ASK	ASK	
	5μ	150mm	AD0633	AD0642	AD0651	ASK	ASK	
	5μ	250mm	AD0634	AD0643	AD0652	ASK	ASK	
	10µ	100mm	AD0635	AD0644	AD0653	ASK	ASK	ASK
Adamas® Cyano	10µ	150mm	AD0636	AD0645	AD0654	ASK	ASK	10mmL x ID
- ,	10µ	250mm	AD0637	AD0646	AD0655	ASK	ASK	(7.8-10-21.2-30-50mm)
	15µ	100mm	AD0638	AD0647	AD0656	ASK	ASK	
	15µ	150mm	AD0639	AD0648	AD0657	ASK	ASK	
	15µ	250mm	AD0640	AD0649	AD0658	ASK	ASK	





Adamas®

Preparative HPLC Columns - Reverse Phase

Ultra Pure Silica Gel

Columns with different sizes are available on request.

Guard Cartridges require suitable Full-Guard Holder



21	D. (1.1. 0)			dering Inform				• •
Phase	Particle Size	Length / ID	7.8mm	10.0mm	21.2mm	30.0mm	50.0mm	Guard
	5μ	100mm	AD0659	AD0668	AD0677	ASK	ASK	
	5µ	150mm	AD0660	AD0669	AD0678	ASK	ASK	
	5μ	250mm	AD0661	AD0670	AD0679	ASK	ASK	
Adamaa®	10µ	100mm	AD0662	AD0671	AD0680	ASK	ASK	ASK
Adamas [®] C18-Classic	10µ	150mm	AD0663	AD0672	AD0681	ASK	ASK	10mmL x ID
	10µ	250mm	AD0664	AD0673	AD0682	ASK	ASK	(7.8-10-21.2-30-50m
	15µ	100mm	AD0665	AD0674	AD0683	ASK	ASK	
	15µ	150mm	AD0666	AD0675	AD0684	ASK	ASK	
	15µ	250mm	AD0667	AD0676	AD0685	ASK	ASK	
	5µ	100mm	AD0686	AD0695	AD0704	ASK	ASK	
	5µ	150mm	AD0687	AD0696	AD0705	ASK	ASK	
	5μ	250mm	AD0688	AD0697	AD0706	ASK	ASK	
	10µ	100mm	AD0689	AD0698	AD0707	ASK	ASK	ASK
Adamas® C18-Extreme	10µ	150mm	AD0690	AD0699	AD0708	ASK	ASK	10mmL x ID
	10µ	250mm	AD0691	AD0700	AD0576	ASK	ASK	(7.8-10-21.2-30-50m
	15µ	100mm	AD0692	AD0701	AD0709	ASK	ASK	
	15µ	150mm	AD0693	AD0702	AD0710	ASK	ASK	
	15µ	250mm	AD0694	AD0703	AD0711	ASK	ASK	
5μ 5μ 5μ 10μ Adamas [®] 10μ	5μ	100mm	AD0712	AD0721	AD0730	ASK	ASK	
	5µ	150mm	AD0713	AD0722	AD0731	ASK	ASK	
	5µ	250mm	AD0714	AD0723	AD0732	ASK	ASK	
	10µ	100mm	AD0715	AD0724	AD0733	ASK	ASK	ASK
	10µ	150mm	AD0716	AD0725	AD0734	ASK	ASK	10mmL x ID
C18-X-Bond	10µ	250mm	AD0717	AD0726	AD0575	ASK	ASK	(7.8-10-21.2-30-50m
	15µ	100mm	AD0718	AD0727	AD0735	ASK	ASK	
	15µ	150mm	AD0719	AD0728	AD0736	ASK	ASK	
	15µ	250mm	AD0720	AD0729	AD0737	ASK	ASK	
	5μ	100mm	AD0738	AD0747	AD0756	ASK	ASK	
	5µ	150mm	AD0739	AD0748	AD0757	ASK	ASK	
	5μ	250mm	AD0740	AD0749	AD0758	ASK	ASK	
	10µ	100mm	AD0741	AD0750	AD0759	ASK	ASK	ASK
Adamas®	10µ	150mm	AD0742	AD0751	AD0760	ASK	ASK	
C18-Select	10µ	250mm	AD0743	AD0752	AD0761	ASK	ASK	10mmL x ID (7.8-10-21.2-30-50m
	15µ	100mm	AD0744	AD0753	AD0762	ASK	ASK	
	15µ	150mm	AD0745	AD0754	AD0763	ASK	ASK	
	15µ	250mm	AD0746	AD0755	AD0764	ASK	ASK	
	5µ	100mm	AD0765	AD0774	AD0783	ASK	ASK	
	5µ	150mm	AD0766	AD0775	AD0784	ASK	ASK	
	5µ	250mm	AD0767	AD0776	AD0785	ASK	ASK	
	10µ	100mm	AD0768	AD0777	AD0786	ASK	ASK	ASK
Adamas®	10µ	150mm	AD0769	AD0778	AD0787	ASK	ASK	
C18-AQ	10µ	250mm	AD0770	AD0779	AD0577	ASK	ASK	10mmL x ID (7.8-10-21.2-30-50m
	16μ 15μ	100mm	AD0771	AD0780	AD0788	ASK	ASK	
	15µ	150mm	AD0772	AD0781	AD0789	ASK	ASK	
	iσμ	250mm	AD0112	ADOIOT	AD0103	AUR	AUN	

Adamas[®] C4 - C8 - Phenyl - Amino - HILIC - CHIRALS are available on request.

Other Lengths and Internal Diameters are available on request. Ask for a quotation.



Sepa-Bulk - Silica Gel for Chromatography

SepaChrom offers a complete line of 100Å Spherical Silica Gel media used in many applications, including Laboratory and Industrial scale Purification.

Sepa-Bulk is available in a wide range of Particle Sizes :

- 10µm & 15µm for Preparative HPLC,
 20-45µm for Preparative LC
- 40-75µm for Flash Chromatography
- 75-200µm for Industrial Scale Purification.

To complete the product line Sepa-Bulk is available with a wide range of Porosities, including 70Å, 150Å, 200Å, 300Å, 500Å, 800Å and 1000Å.



Functionalization	Porosity (Å)	Particle Size (µm)	Description	Packaging Stock N# (kg)		Applications	
Silica	100Å	10 µm	Sepa-Bulk Silica	1kg	FF0001	Preparative Chromatography	
Silica	100Å	15 µm	Sepa-Bulk Silica	1kg	FF0002	Freparative Chromatography	
Silica	100Å	20-45 µm	Sepa-Bulk Silica	1kg	FF0003		
Silica	Silica 100Å		Sepa-Bulk Silica	10kg	FF0004	Preparative & Flash Chromatography	
Silica	100Å	20-45 µm	Sepa-Bulk Silica	20kg	FF0005		
Silica	100Å	40-75 µm	Sepa-Bulk Silica	1kg	FF0006		
Silica	100Å	40-75 µm	Sepa-Bulk Silica	10kg	FF0007	Flash Chromatography	
Silica	100Å	40-75 µm	Sepa-Bulk Silica	20kg	FF0008		
Silica	100Å	75-200 µm	Sepa-Bulk Silica	1kg	FF0009		
Silica	100Å	75-200 µm	Sepa-Bulk Silica	10kg	FF0010	Industrial Scale Purification	
Silica	100Å	75-200 µm	Sepa-Bulk Silica	20kg	FF0011		
C18	100Å	10 µm	Sepa-Bulk C18	250g	FF0012		
C18	100Å	10 µm	Sepa-Bulk C18	1kg	FF0013	Preparative Chromatography	
C18	100Å	15 µm	Sepa-Bulk C18	250g	FF0014	Freparative Chromatography	
C18	100Å	15 µm	Sepa-Bulk C18	1kg	FF0015		
C18	100Å	20-45 µm	Sepa-Bulk C18	1kg	FF0022	Dranarativa & Flach Chromategraphy	
C18	100Å	20-45 µm	Sepa-Bulk C18	10kg	FF0016	Preparative & Flash Chromatography	
C18	100Å	40-75 μm	Sepa-Bulk C18	1kg	FF0017	Flack Observatography	
C18	100Å	40-75 µm	Sepa-Bulk C18	10kg	FF0018	Flash Chromatography	
C18	100Å	75-200 µm	Sepa-Bulk C18	1kg	FF0019		
C18	100Å	75-200 µm	Sepa-Bulk C18	10kg	FF0020	Industrial Casta Dusification	
C18	100Å	75-200 µm Sepa-Bulk C18		20kg FF0021		Industrial Scale Purification	

Sepa-Bulk product lines include a wide range of bonded media to meet any purification challenge from Laboratory to Industrial scale. Packaging is available from 100g to multi-ton for laboratory to process scale applications.

Packing	Porosity	Particle Size
C18	70Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
Silica	70Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
C8	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
PHENYL	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
PEI	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
соон	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
SO3H	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
DIOL	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
CN	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
NH2	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
DNH	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ
HILIC	70Å-100Å-150Å-200Å-300Å-500Å-800Å-1000Å	10µ - 15µ - 20/45µ - 40/75µ - 75/200µ

Are you looking for a Preparative or Process Scale Column or Chromatographic System?

SepaChrom offers a complete line of Stainless Steel Low-Medium & High Pressure columns (up to 2m ID 100bar) and systems (up to 5000 l/hr flow rate) for Laboratory and Industrial scale Purification.

Contact our office for more details





Other Products available from SepaChrom



- HPLC, UHPLC Silica Based Columns for Analytical Applications
- Vydac® Columns for Proteins and Peptides Separations Polymer Base Columns for Carbohydrate &
- Organic Acids Analysis Chiral HPLC Columns
- Ion Chromatography Columns for Anions and Cations Analysis



Irregular and Spherical Silica Gel for Flash, Prep & Industrial Purification Bonded Silica C18, Cyano, Diol, Amino Wide Range Porosity (30Å- 2500Å) and

- Particle Size (10µ-200µ) for Any Application Polymer Based Resin for Reversed
- Phase and Ion Exchange Chromatography



- 10mm-25mmID Packed Prep Columns for Lab Scale Purification 25mm-100mmID Packed & Empty, Flanged & Spring Column Technology 50mm-2000mmID Process Scale Chroma-
- tography Columns & Systems, Flanged & DAC Technology Scale-up Method Development & Packing
- Scale-up Method Development & Packing Service



Instruments for Flash and Prep Chromatography up to 750mL/min & 250 bar Pressure.

- 190-840 Multi Wavelength & Scan Collection, Integrated ELSD, MS Simple Quad Detector Flash Columns for All Existing Flash Instru-
- ments : Silica, Reverse Phase, CN, Diol, NH2, Chiral Phases, 15µ to 50µ Particle Size



Silica Based SPE Cartridges for Pharma, Environmental, Food&Beverage Applications.

Polymer Base SPE Cartridges for Clinical & Forensic Applications. Ion Chromatography SPE Cartridges Accessories for SPE

Siringe Filters & QuEChERS



Autosampler Vials for HPLC, IC e GC

- Sampling Vials Head Space Vials
- Crimper & Decapper and
- Sampling Accessories



- Full Range of High Performance GC Capillary Column SepaChrom-MEGA :
- MS Columns, Chiral, Mega-HT, Fast-GC, Mega-2D, Custom Dedicated Columns.
- Formerly GRACE/ALLTECH GC Capillary Column Heliflex® & Econo-Cap™



SS & PEEK Tubing for Analytical,Preparative and Ion Chromatography Fittings, Ferrule & Valves for HPLC, IC and GC Syringes and Septa for GC Traps for GC Gas Lines Gas Generators

Company Profile

<u>About us :</u>

SepaChrom is a new company specialising in **Chromatography**. *SepaChrom* is the brainchild of the founders who wanted to create a dedicated and unique company able to support **Chromatography Users** in optimizing their separation challenges.

Our Core competence is the manufacture, sale and support of *High-Quality* products for *GC*, *Analytical* and *Preparative* scale *HPLC* and *Flash* purification, including consumables and accessories, through to *Process* scale purification.

Our Mission :

Our team has decades of experience, which, combined with a range of High Quality selected products and the most efficient technological solutions, allows *SepaChrom* to support Pharma, Biotech, Chemical, Food and Beverage, Cosmetic, Environmental, Clinical and Petrochemical industries, in R&D departments as well in QC laboratories and Production. Our commitment is to provide the Highest level of Technical Support that Chromatographers expect from *Your Specialist in Chromatography Customers in Mind* :

<u>Customers in Mind :</u>

The success of *SepaChrom* is driven by the complete *satisfaction* of our customers, and consequently by their success.

SepaChrom's expertise results in High-Quality *pre & post* sale support to Chromatographic Users. This includes *fast delivery* of products from our warehouse to your location.



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