



# COGENT<sup>™</sup> RP

Everyday, Reliable Precision  
Analytical HPLC Columns  
QUICK ORDERING GUIDE



Great for USP or New Methods

MANUFACTURED BY:

**MICROSOLV** TECHNOLOGY CORPORATION

## Who is Cogent?

MicroSolv is well known for its Cogent TYPE-C™ silica hydride HPLC columns and as a leader in polar compound analysis. These columns are made with advanced manufacturing techniques and have a well-deserved reputation for excellent quality and reliability.

In addition, we also have Cogent RP™ HPLC columns that are part of the same MicroSolv family of chromatography products and are made with the same attention to quality. These “everyday” columns are used in many USP and in-house methods and are often chosen for reliability, precision and reproducibility, year after year.

I'm sure you will find these columns to be a great quality choice for all of your Reversed Phase HPLC methods and you can count on our live, friendly, technical support for as long as you use these columns. We help with onboarding, method development, troubleshooting and assistance during investigations.

I trust you will find this catalog helpful, easy to use and that the columns and our help and support will meet your expectations.

Bill Ciccone



President  
MicroSolv Technology Corporation  
[www.mtc-usa.com](http://www.mtc-usa.com)

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## Why Choose Cogent RP™?

Cogent RP™ HPLC columns have been available in the industry for over 20 years and are used in many USP methods as well as those developed in-house.

They are manufactured in the USA and are available globally through local distributors.

MicroSolv's Research & Development and Technical Support Laboratories assist our customers for the lifetime of our products with live, free and friendly assistance.

### More About Cogent RP™ Columns.

- Providing excellent peak shapes, precision and robust column lifetimes.
- Cogent RP™ columns are available in a wide range of phases that help for closely related compounds and other challenges. A truly great value and a must-have for USP methods.
- Columns are made in a state of the art, modern, ultra-clean, US factory with a focus on materials accountability and chain of custody. They can be used reliably and confidently in regulated laboratories and for modern & existing HPLC applications.
- 100Å and 300Å phases are used in analytical methods and all of the 3, 5 and 10µm phases can be scaled-up for preparative HPLC applications. All phases are available in 7, 10, 21.2, 30 and 50mm ID columns. Know that you can always scale up your method if needed and we are happy to assist in the process.
- We use the very best HPLC silica available today and the super-efficient bonding, exhaustive end-capping and consistent column packing are only part of the RP™ column value package. Be fully confident you are getting the highest industry quality RP columns.
- Accountability for manufacturing materials, onboarding support, troubleshooting and assistance during investigations as well as mirroring method conditions in our laboratories is part of the RP™ package. Be confident these columns can be traced to source materials if needed.

### Other Cogent™ HPLC Options: *Please Inquire*

- Columns that are Similar™ to legacy brands are available.
- Columns used in Normal Phase HPLC are available.
- Polar compounds, peptides, amino acids, organic acids, amines, water labile compounds, natural products and bioactive compounds may be better served by Cogent TYPE-C™ silica hydride ANP columns.

## Column Configurations Offered in This Brochure

Other Sizes Are Available – *Please Inquire*

	50 x 2.1
	50 x 4.6
	100 x 2.1
	100 x 4.6
	150 x 2.1
	150 x 4.6
	250 x 4.6

## Table of Contents

<b>C4 Columns</b> . . . . .	Page 4
<i>Butyl phase: L26</i>	
<b>C8 Columns</b> . . . . .	Page 5
<i>Octyl phase: LØ7</i>	
<b>C12 Columns</b> . . . . .	Page 6
<i>Unique 12 carbon geometric phase</i>	
<b>C18 Columns</b> . . . . .	Page 7
<i>Octadecyl phase: LØ1</i>	
<b>C18 ABX™ High pH Columns</b> . . . . .	Page 8
<i>Use with acid or base, pH 1-12</i>	
<b>C18 PE™ High Aqueous</b> . . . . .	Page 9
<i>Polar Embedded C18 Columns: LØ7</i>	
<b>C30 Columns</b> . . . . .	Page 10
<i>Extremely hydrophobic phase: L62</i>	
<b>Cyano HPLC Columns</b> . . . . .	Page 11
<i>Cyano phase: L1Ø</i>	
<b>Phenyl Columns</b> . . . . .	Page 12
<i>Great choice for aromatic rings: L11</i>	
<b>Phenyl-Hexyl Columns</b> . . . . .	Page 13
<i>Unique selectivity for aromatic rings: L11</i>	
<b>PentaFluoroPhenyl - PFP</b> . . . . .	Page 14
<i>Five Fluorines on a Phenyl Ring L43</i>	
<b>Amino Columns</b> . . . . .	Page 15
<i>Packed for normal phase operation: LØ8</i>	
<b>Silica Columns</b> . . . . .	Page 16
<i>Unmodified silica for normal phase operation LØ3</i>	

Trademarks:  
 Cogent RP™, Cogent TYPE-C™, Cogent NP™, Cogent ABX™, Cogent PE™,  
 Cogent F5™, Cogent Similar™

## C4 • Butyl Phase • Slightly Hydrophobic • L26

Available in both standard and wide pore sizes they are less hydrophobic than C8, C12 or C18. These columns are often used for small molecules, proteins and peptides especially when higher water concentrations are needed in the mobile phase. For best results these columns are not end-capped.

1.8µm 100Å Carbon Load 6% UHPLC 325m <sup>2</sup> /g						NEW
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	
2.1mm	68104-05P-2	2.1mm	68104-10P-2	2.1mm	68104-15P-2	
4.6mm	68104-05P	4.6mm	68104-10P	4.6mm	68104-15P	

3µm 100Å Carbon Load 6% 325m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68304-05P-2	2.1mm	68304-10P-2	2.1mm	68304-15P-2		
4.6mm	68304-05P	4.6mm	68304-10P	4.6mm	68304-15P	4.6mm	68304-25P

5µm 100Å Carbon Load 6% 325m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68504-05P-2	2.1mm	68504-10P-2	2.1mm	68504-15P-2		
4.6mm	68504-05P	4.6mm	68504-10P	4.6mm	68504-15P	4.6mm	68504-25P

10µm 100Å Carbon Load 6% 325m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68004-05P-2	2.1mm	68004-10P-2	2.1mm	68004-15P-2		
4.6mm	68004-05P	4.6mm	68004-10P	4.6mm	68004-15P	4.6mm	68004-25P

5µm 300Å Carbon Load 3% 100m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68504-05P-2-3M	2.1mm	68504-10P-2-3M	2.1mm	68504-15P-2-3M		
4.6mm	68504-05P-3M	4.6mm	68504-10P-3M	4.6mm	68504-15P-3M	4.6mm	68504-25P-3M

10µm 300Å Carbon Load 3% 100m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68004-05P-2-3M	2.1mm	68004-10P-2-3M	2.1mm	68004-15P-2-3M		
4.6mm	68004-05P-3M	4.6mm	68004-10P-3M	4.6mm	68004-15P-3M	4.6mm	68004-25P-3M

## C8 • Octyl Phase • Faster Elution • USP LØ7

Available in both standard and wide pore sizes these columns are less hydrophobic than C18 and the ligands are less dense. Often used when faster elution of small hydrophobic molecules is desired. For best results these columns are fully end-capped.

1.8µm 100Å Carbon Load 11% UHPLC 325m <sup>2</sup> /g						NEW
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	
2.1mm	68108-05P-2	2.1mm	68108-10P-2	2.1mm	68108-15P-2	
4.6mm	68108-05P	4.6mm	68108-10P	4.6mm	68108-15P	

3µm 100Å Carbon Load 11% 325m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68308-05P-2	2.1mm	68308-10P-2	2.1mm	68308-15P-2		
4.6mm	68308-05P	4.6mm	68308-10P	4.6mm	68308-15P	4.6mm	68308-25P

5µm 100Å Carbon Load 11% 325m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68508-05P-2	2.1mm	68508-10P-2	2.1mm	68508-15P-2		
4.6mm	68508-05P	4.6mm	68508-10P	4.6mm	68508-15P	4.6mm	68508-25P

10µm 100Å Carbon Load 11% 325m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68008-05P-2	2.1mm	68008-10P-2	2.1mm	68008-15P-2		
4.6mm	68008-05P	4.6mm	68008-10P	4.6mm	68008-15P	4.6mm	68008-25P

5µm 300Å Carbon Load 5% 100m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68508-05P-2-3M	2.1mm	68508-10P-2-3M	2.1mm	68508-15P-2-3M		
4.6mm	68508-05P-3M	4.6mm	68508-10P-3M	4.6mm	68508-15P-3M	4.6mm	68508-25P-3M

10µm 300Å Carbon Load 5% 100m <sup>2</sup> /g							
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68008-05P-2-3M	2.1mm	68008-10P-2-3M	2.1mm	68008-15P-2-3M		
4.6mm	68008-05P-3M	4.6mm	68008-10P-3M	4.6mm	68008-15P-3M	4.6mm	68008-25P-3M

## C12 • Unique Structure • High Throughput Screening

These densely packed adamantyl C12 columns have similar selectivity with C18 but often give sharper peaks for small molecule compounds that usually tail. The unique structure of our C12 facilitates rapid equilibration between gradient runs which is great for high speed analysis and semi-preparative applications. For best results these columns are fully end-capped.

3 $\mu$ m		100Å		Carbon Load 16%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	<b>68312-05P-2</b>	2.1mm	<b>68312-10P-2</b>	2.1mm	<b>68312-15P-2</b>		
4.6mm	<b>68312-05P</b>	4.6mm	<b>68312-10P</b>	4.6mm	<b>68312-15P</b>	4.6mm	<b>68312-25P</b>

5 $\mu$ m		100Å		Carbon Load 16%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	<b>68512-05P-2</b>	2.1mm	<b>68512-10P-2</b>	2.1mm	<b>68512-15P-2</b>		
4.6mm	<b>68512-05P</b>	4.6mm	<b>68512-10P</b>	4.6mm	<b>68512-15P</b>	4.6mm	<b>68512-25P</b>

10 $\mu$ m		100Å		Carbon Load 16%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	<b>68012-05P-2</b>	2.1mm	<b>68012-10P-2</b>	2.1mm	<b>68012-15P-2</b>		
4.6mm	<b>68012-05P</b>	4.6mm	<b>68012-10P</b>	4.6mm	<b>68012-15P</b>	4.6mm	<b>68012-25P</b>

## C18 • Octadecyl Phase • Hydrophobic • USP LØ1

These densely packed columns are most commonly used for Reversed Phase HPLC. Considered best use for separating long chain fatty acids compared to relatively small molecules; the C18 Phase is generally used for most hydrophobic compounds. Expect longer retention compared to C8 or C12. For best results these columns are fully end-capped.

1.8µm		100Å		Carbon Load 19% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	68118-05P-2	2.1mm	68118-10P-2	2.1mm	68118-15P-2		
4.6mm	68118-05P	4.6mm	68118-10P	4.6mm	68118-15P		

3µm		100Å		Carbon Load 19%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68318-05P-2	2.1mm	68318-10P-2	2.1mm	68318-15P-2		
4.6mm	68318-05P	4.6mm	68318-10P	4.6mm	68318-15P	4.6mm	68318-25P

5µm		100Å		Carbon Load 19%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68518-05P-2	2.1mm	68518-10P-2	2.1mm	68518-15P-2		
4.6mm	68518-05P	4.6mm	68518-10P	4.6mm	68518-15P	4.6mm	68518-25P

10µm		100Å		Carbon Load 19%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68018-05P-2	2.1mm	68018-10P-2	2.1mm	68018-15P-2		
4.6mm	68018-05P	4.6mm	68018-10P	4.6mm	68018-15P	4.6mm	68018-25P

5µm		300Å		Carbon Load 8%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68518-05P-2-3M	2.1mm	68518-10P-2-3M	2.1mm	68518-15P-2-3M		
4.6mm	68518-05P-3M	4.6mm	68518-10P-3M	4.6mm	68518-15P-3M	4.6mm	68518-25P-3M

10µm		300Å		Carbon Load 8%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68018-05P-2-3M	2.1mm	68018-10P-2-3M	2.1mm	68018-15P-2-3M		
4.6mm	68018-05P-3M	4.6mm	68018-10P-3M	4.6mm	68018-15P-3M	4.6mm	68018-25P-3M



## C18 ABX™ • Extreme pH Capable • USP LØ1

The proprietary design of this C18 column allows it to be used between pH 1 -12 and is useful for samples that require acidic or basic conditions for separation. Column efficiency and retention times are maintained even under these conditions. For best results this column is fully end-capped. ABX columns are also available in C4, C8 and Phenyl-Hexyl phases; for more information, please inquire.

1.8µm		100Å		Carbon Load 15% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	85118-05P-2	2.1mm	85118-10P-2	2.1mm	85118-15P-2		
4.6mm	85118-05P	4.6mm	85118-10P	4.6mm	85118-15P		

3µm		100Å		Carbon Load 15%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	85318-05P-2	2.1mm	85318-10P-2	2.1mm	85318-15P-2		
4.6mm	85318-05P	4.6mm	85318-10P	4.6mm	85318-15P	4.6mm	85318-25P

5µm		100Å		Carbon Load 15%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	85518-05P-2	2.1mm	85518-10P-2	2.1mm	85518-15P-2		
4.6mm	85518-05P	4.6mm	85518-10P	4.6mm	85518-15P	4.6mm	85518-25P

10µm		100Å		Carbon Load 15%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	85018-05P-2	2.1mm	85018-10P-2	2.1mm	85018-15P-2		
4.6mm	85018-05P	4.6mm	85018-10P	4.6mm	85018-15P	4.6mm	85018-25P



## C18 PE™ • Polar Embedded • Stable • USP LØ1

Useful when very high aqueous content mobile phases are required for retention of hydrophobic compounds. This C18 has an amide group embedded which effectively acts to maintain a wetted particle surface for reproducible run to run results. It's also used for unique selectivity compared to ordinary C18 columns. These columns are fully end-capped for optimal performance. C8, Phenyl and Cyano PE™ polar embedded columns are available, please inquire for more information.

3µm		100Å		Carbon Load 16%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	84318-05P-2	2.1mm	84318-10P-2	2.1mm	84318-15P-2		
4.6mm	84318-05P	4.6mm	84318-10P	4.6mm	84318-15P	4.6mm	84318-25P

5µm		100Å		Carbon Load 16%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	84518-05P-2	2.1mm	84518-10P-2	2.1mm	84518-15P-2		
4.6mm	84518-05P	4.6mm	84518-10P	4.6mm	84518-15P	4.6mm	84518-25P

10µm		100Å		Carbon Load 16%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	84018-05P-2	2.1mm	84018-10P-2	2.1mm	84018-15P-2		
4.6mm	84018-05P	4.6mm	84018-10P	4.6mm	84018-15P	4.6mm	84018-25P

## C30 • Very Hydrophobic • Shape Selectivity • USP L62

With bulky carbon chains and medium sized pores the C30 phase is our most commonly used reversed phase column for the separation of positional isomers and very long chain analytes such as carotenoids, peptides and some proteins. It has lower back pressure than C18 columns. Compares to YMC™ C30 Columns.

3µm		200Å		Carbon Load 19%		200m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	72330-05P-2	2.1mm	72330-10P-2	2.1mm	72330-15P-2		
4.6mm	72330-05P	4.6mm	72330-10P	4.6mm	72330-15P	4.6mm	72330-25P

5µm		200Å		Carbon Load 19%		200m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	72530-05P-2	2.1mm	72530-10P-2	2.1mm	72530-15P-2		
4.6mm	72530-05P	4.6mm	72530-10P	4.6mm	72530-15P	4.6mm	72530-25P

10µm		200Å		Carbon Load 19%		200m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	72030-05P-2	2.1mm	72030-10P-2	2.1mm	72030-15P-2		
4.6mm	72030-05P	4.6mm	72030-10P	4.6mm	72030-15P	4.6mm	72030-25P

## Cvano • CN • Cyanopropyl • Polarized Column • USP L1Ø

These columns have a cyano-propyl group ligand and are less retentive than C4 columns for neutral compounds and are useful for the separation of polar from non-polar compounds in a single sample. They are packed in aqueous solvents but can be used in reversed or normal phase HPLC and are non end-capped for optimal performance.

1.8µm					100Å		Carbon Load 6% UHPLC		325m <sup>2</sup> /g		NEW
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number						
2.1mm	68134-05P-2	2.1mm	68134-10P-2	2.1mm	68134-15P-2						
4.6mm	68134-05P	4.6mm	68134-10P	4.6mm	68134-15P						

3µm				100Å		Carbon Load 6%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number		
2.1mm	68334-05P-2	2.1mm	68334-10P-2	2.1mm	68334-15P-2				
4.6mm	68334-05P	4.6mm	68334-10P	4.6mm	68334-15P	4.6mm	68334-25P		

5µm				100Å		Carbon Load 6%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number		
2.1mm	68534-05P-2	2.1mm	68534-10P-2	2.1mm	68534-15P-2				
4.6mm	68534-05P	4.6mm	68534-10P	4.6mm	68534-15P	4.6mm	68534-25P		

10µm				100Å		Carbon Load 6%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number		
2.1mm	68034-05P-2	2.1mm	68034-10P-2	2.1mm	68034-15P-2				
4.6mm	68034-05P	4.6mm	68034-10P	4.6mm	68034-15P	4.6mm	68034-25P		

5µm				300Å		Carbon Load 3%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number		
2.1mm	68534-05P-2-3M	2.1mm	68534-10P-2-3M	2.1mm	68534-15P-2-3M				
4.6mm	68534-05P-3M	4.6mm	68534-10P-3M	4.6mm	68534-15P-3M	4.6mm	68534-25P-3M		

10µm				300Å		Carbon Load 3%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number		
2.1mm	68034-05P-2-3M	2.1mm	68034-10P-2-3M	2.1mm	68034-15P-2-3M				
4.6mm	68034-05P-3M	4.6mm	68034-10P-3M	4.6mm	68034-15P-3M	4.6mm	68034-25P-3M		

## Phenyl • For Aromatic Compounds • USP L11

This very popular column is used when samples contain aromatic rings and a  $\pi$ - $\pi$  interaction is desired to provide extra selectivity. This phase has a benzene ring attached to the silica with a propyl group linker and is fully end-capped for optimal results.

1.8 $\mu$ m		100Å		Carbon Load 12% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	68124-05P-2	2.1mm	68124-10P-2	2.1mm	68124-15P-2		
4.6mm	68124-05P	4.6mm	68124-10P	4.6mm	68124-15P		

3 $\mu$ m		100Å		Carbon Load 12%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68324-05P-2	2.1mm	68324-10P-2	2.1mm	68324-15P-2		
4.6mm	68324-05P	4.6mm	68324-10P	4.6mm	68324-15P	4.6mm	68324-25P

5 $\mu$ m		100Å		Carbon Load 12%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68524-05P-2	2.1mm	68524-10P-2	2.1mm	68524-15P-2		
4.6mm	68524-05P	4.6mm	68524-10P	4.6mm	68524-15P	4.6mm	68524-25P

10 $\mu$ m		100Å		Carbon Load 12%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68024-05P-2	2.1mm	68024-10P-2	2.1mm	68024-15P-2		
4.6mm	68024-05P	4.6mm	68024-10P	4.6mm	68024-15P	4.6mm	68024-25P

5 $\mu$ m		300Å		Carbon Load 5%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68524-05P-2-3M	2.1mm	68524-10P-2-3M	2.1mm	68524-15P-2-3M		
4.6mm	68524-05P-3M	4.6mm	68524-10P-3M	4.6mm	68524-15P-3M	4.6mm	68524-25P-3M

10 $\mu$ m		300Å		Carbon Load 5%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68024-05P-2-3M	2.1mm	68024-10P-2-3M	2.1mm	68024-15P-2-3M		
4.6mm	68024-05P-3M	4.6mm	68024-10P-3M	4.6mm	68024-15P-3M	4.6mm	68024-25P-3M

## Phenyl-Hexyl • Two Selectivities • USP L11

The Phenyl-Hexyl phase offers a somewhat different selectivity from our Phenyl phase due to the six carbon chain link from the silica to the phenyl group. There are two different selectivities with this one column offering desired separation of some samples. The two selectivities are due to the hydrophobic nature of the aliphatic linker chain and the aromatic phenyl group with a  $\pi$ - $\pi$  interaction. Often used for polyaromatic hydrocarbons, nitroaromatics and most compounds with benzene rings. These columns are fully end-capped for best results.

1.8 $\mu$ m		100Å		Carbon Load 15% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	68139-05P-2	2.1mm	68139-10P-2	2.1mm	68139-15P-2		
4.6mm	68139-05P	4.6mm	68139-10P	4.6mm	68139-15P		

3 $\mu$ m		100Å		Carbon Load 15%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68339-05P-2	2.1mm	68339-10P-2	2.1mm	68339-15P-2		
4.6mm	68339-05P	4.6mm	68339-10P	4.6mm	68339-15P	4.6mm	68339-25P

5 $\mu$ m		100Å		Carbon Load 15%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68539-05P-2	2.1mm	68539-10P-2	2.1mm	68539-15P-2		
4.6mm	68539-05P	4.6mm	68539-10P	4.6mm	68539-15P	4.6mm	68539-25P

10 $\mu$ m		100Å		Carbon Load 15%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68039-05P-2	2.1mm	68039-10P-2	2.1mm	68039-15P-2		
4.6mm	68039-05P	4.6mm	68039-10P	4.6mm	68039-15P	4.6mm	68039-25P

## PFP • Pentafluorophenyl • USP L43

These columns offer different selectivity from other phenyl and alkyl columns such as C8 and C18. Originally used to be orthogonal to C8 and C18, PFP and other fluorinated phases are often used as the main column for methods due to the selectivity from  $\pi$ - $\pi$  interactions, enhanced dipole moments, charge transfer, ion interaction and ion exchange interactions. Often used for natural products, aromatic and other polar compounds, these columns are fully end-capped for best results.

1.8 $\mu$ m		100Å		Carbon Load 9% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	68122-05P-2	2.1mm	68122-10P-2	2.1mm	68122-15P-2		
4.6mm	68122-05P	4.6mm	68122-10P	4.6mm	68122-15P		

3 $\mu$ m		100Å		Carbon Load 9%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68322-05P-2	2.1mm	68322-10P-2	2.1mm	68322-15P-2		
4.6mm	68322-05P	4.6mm	68322-10P	4.6mm	68322-15P	4.6mm	68322-25P

5 $\mu$ m		100Å		Carbon Load 9%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68522-05P-2	2.1mm	68522-10P-2	2.1mm	68522-15P-2		
4.6mm	68522-05P	4.6mm	68522-10P	4.6mm	68522-15P	4.6mm	68522-25P

10 $\mu$ m		100Å		Carbon Load 9%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68022-05P-2	2.1mm	68022-10P-2	2.1mm	68022-15P-2		
4.6mm	68022-05P	4.6mm	68022-10P	4.6mm	68022-15P	4.6mm	68022-25P

## Amino • Polarized Column • USP LØ8

These Cogent NP™ columns have an amino group at the end of a propyl carbon chain as the ligand. Retention is due to electrostatic attraction of polar compounds and the negative dipole moment of the NH<sub>2</sub>. Useful for separation of samples that have compounds with polar functional groups such as oligosaccharides, glycoalkaloids, surfactants, polar pharmaceutical impurities and tocopherols. These columns are packed in non-polar solvents and are non end-capped for best results. Best performance is in normal phase HPLC.

1.8µm		100Å		Carbon Load 4% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	68140-05P-2	2.1mm	68140-10P-2	2.1mm	68140-15P-2		
4.6mm	68140-05P	4.6mm	68140-10P	4.6mm	68140-15P		

3µm		100Å		Carbon Load 4%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68340-05P-2	2.1mm	68340-10P-2	2.1mm	68340-15P-2		
4.6mm	68340-05P	4.6mm	68340-10P	4.6mm	68340-15P	4.6mm	68340-25P

5µm		100Å		Carbon Load 4%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68540-05P-2	2.1mm	68540-10P-2	2.1mm	68540-15P-2		
4.6mm	68540-05P	4.6mm	68540-10P	4.6mm	68540-15P	4.6mm	68540-25P

10µm		100Å		Carbon Load 4%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68040-05P-2	2.1mm	68040-10P-2	2.1mm	68040-15P-2		
4.6mm	68040-05P	4.6mm	68040-10P	4.6mm	68040-15P	4.6mm	68040-25P

5µm		300Å		Carbon Load 3%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68540-05P-2-3M	2.1mm	68540-10P-2-3M	2.1mm	68540-15P-2-3M		
4.6mm	68540-05P-3M	4.6mm	68540-10P-3M	4.6mm	68540-15P-3M	4.6mm	68540-25P-3M

10µm		300Å		Carbon Load 3%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	68040-05P-2-3M	2.1mm	68040-10P-2-3M	2.1mm	68040-15P-2-3M		
4.6mm	68040-05P-3M	4.6mm	68040-10P-3M	4.6mm	68040-15P-3M	4.6mm	68040-25P-3M



## Silica • Unmodified Silica, High Purity • USP LØ3

These Cogent NP™, unbonded, HPLC columns are made with the purest, metal free and most reproducible Type-B silica available on the market. Densely packed with years of experience, these columns offer great polar selectivity and are often used in HILIC mode for polar compounds. The most common use of silica columns is in normal phase HPLC with non-polar solvents for non-polar compounds such as fat soluble vitamins, steroidal structures and others. Non end-capped, silica columns are commonly chosen for preparative scale HPLC.

1.8µm		100Å		Carbon Load 0% UHPLC		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number		
2.1mm	82161-05P-2	2.1mm	82161-10P-2	2.1mm	82161-15P-2		
4.6mm	82161-05P	4.6mm	82161-10P	4.6mm	82161-15P		

3µm		100Å		Carbon Load 0%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	82361-05P-2	2.1mm	82361-10P-2	2.1mm	82361-15P-2		
4.6mm	82361-05P	4.6mm	82361-10P	4.6mm	82361-15P	4.6mm	82361-25P

5µm		100Å		Carbon Load 0%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	82561-05P-2	2.1mm	82561-10P-2	2.1mm	82561-15P-2		
4.6mm	82561-05P	4.6mm	82561-10P	4.6mm	82561-15P	4.6mm	82561-25P

10µm		100Å		Carbon Load 0%		325m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	82061-05P-2	2.1mm	82061-10P-2	2.1mm	82061-15P-2		
4.6mm	82061-05P	4.6mm	82061-10P	4.6mm	82061-15P	4.6mm	82061-25P

5µm		300Å		Carbon Load 0%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	82561-05P-2-3M	2.1mm	82561-10P-2-3M	2.1mm	82561-15P-2-3M		
4.6mm	82561-05P-3M	4.6mm	82561-10P-3M	4.6mm	82561-15P-3M	4.6mm	82561-25P-3M

10µm		300Å		Carbon Load 0%		100m <sup>2</sup> /g	
50mm Length	Catalog Number	100mm Length	Catalog Number	150mm Length	Catalog Number	250mm Length	Catalog Number
2.1mm	82061-05P-2-3M	2.1mm	82061-10P-2-3M	2.1mm	82061-15P-2-3M		
4.6mm	82061-05P-3M	4.6mm	82061-10P-3M	4.6mm	82061-15P-3M	4.6mm	82061-25P-3M

## Keeping your HPLC Columns Fresh is Simple!

### Why use a guard column?

#### Particulate Contamination

Particles collect in an HPLC column's inlet frit or in the first millimeter of the packed bed that can cause costly instrument down time for your lab. These valuable columns are usually discarded to avoid degradation of analysis such as peak tailing and split peaks.



Analytical Guard Column Holder and Cartridge is shown.

#### Chemical Contamination

Another source of problems are compounds that irreversibly bond to the stationary phase and are often injected into analytical columns. These compounds cause permanent damage to columns that are not protected by a guard column. Shifting of retention time and loss of resolution often results.

#### Act as a Particulate and Chemical Filter

Particulate contaminants will be filtered by the guard column frit before they collect on the analytical column. All dissolved and non-dissolved contaminants will be retained by the guard column's stationary phase before they destroy the analytical column.

*Cogent RP™ Guard Column systems are available for 2.1, 4.6, 10 or 21.2mm columns, please inquire for more information or visit our website.*

## Cogent RP™ Preparative HPLC Columns for Purification!



### Direct scale up with the same phase as our analytical columns.

Seamless scale up from 2.1mm to 50mm columns is easy as we use the same stationary phase, particle and pore size in our analytical and prep columns to keep the chromatography the same. Use our analytical columns to develop a prep method.

*Cogent RP™ Prep Columns are available in 7.8, 10, 21.2, 30 and 50mm ID and lengths from 50mm to 250mm. For more information, please inquire or visit our website.*

## A Better Way to Retain Polar Compounds.

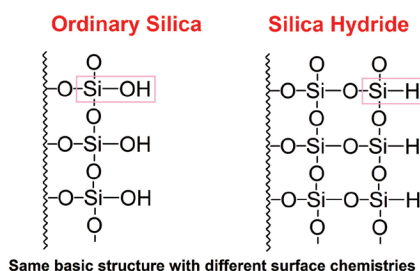
### Cogent TYPE-C™ Silica, Premium HPLC Columns are made for polar compound analysis.

The unique chemistry of the TYPE-C™ silica hydride particles and bonded phases produce a mode of chromatography; Aqueous Normal Phase (ANP) that is excellent for the separation of closely related polar compounds. ANP is working with reversed phase solvents in normal phase chromatography.

Only with TYPE-C™ columns and their slightly hydrophobic, silica hydride particles, (instead of hydrophilic like standard silica phases) you can retain polar compounds in Aqueous Normal Phase (ANP).

Robust methods with very fast equilibration times (even with inverse gradients) and the power to separate polar compounds easily without being restricted to isocratic methods is possible with Cogent TYPE-C™ Premium Columns.

The unique selectivity of these columns, even when using typical reversed phase solvents with a method designed for these phases and our friendly, live and always free support team that is happy to help and will support you for the lifetime of the column.



- Excellent for LCMS
- Bonded Phases for Closely Related Compounds
- Easily Work in 3 Modes of HPLC
- Long Column Lifetimes
- Analytical or Prep Sizes
- Superior to HILIC

#### Excellent choice when developing methods for:

Metabolomics  
Organic Acids  
Peptides  
Amino Acids  
Basic Polar Pharmaceuticals  
Nitrogen Containing Compounds  
Water Labile Compounds  
Natural Products  
Hard to Retain Compounds



**Unique Bonding Chemistry** creates direct silicon-carbon bonds so they resist being hydrolyzed. Useful with acidic mobile phases at low pH without damage to the columns.

**Great for Natural Products** including cannabinoids, due to the lack of a surface water layer normally associated with ordinary Type-B silica columns. Easy column cleaning procedures bring excellent lifetime and precision run to run, day to day compared to ordinary columns.

**For Prep HPLC** use lower salt concentrations compared to HILIC. Great for high purification yields for basic or acidic compounds.

**Lack of Silanols** compounds normally degraded on ordinary columns are usually preserved on Cogent TYPE-C™ columns.

Available in analytical, guard or prep sizes, please inquire for ordering or technical information or visit our website.

## Great HPLC Data Starts with Good Sample Prep.

Understanding glass surface chemistry is essential for consistent, predictable chromatography.

RSA™ vials & inserts made with Reduced Surface Activity glass (RSA™) were developed for the separations laboratory that investigates low abundance analytes or samples that are pH sensitive, basic in nature or when using mass spectrometers. Chosen when coatings or silanization is not sufficient or counter indicated for good results such as with LCMS, GCMS or UHPLC. For samples, ordering or technical information, please inquire or visit our website.



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## Best Practice is to filter HPLC and dissolution samples before analysis.

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MicroSolv AQ™ Advanced Quality syringe filters are different from other industry filters as they are manufactured, QC certified and validated for many regulatory requirements and a QC certificate is supplied with every pack of filters.

These filters comply with US FDA CFR Title 21, Part 210.3(b)(6) for minimum Fiber Release and with USP <788> test for particulate matter in injectables as well as USP for “Sterile Water for Injection” and therefore do not require any initial flushing or discarding of the first 200µl of filtrate saving time and avoiding investigation of failed methods. The polypropylene plastic housing material complies with the requirements of US FDA CFR Title 21 Part 177.1520 and are heat sealed to prevent leaching. These filters pass a test for oxidizable matter as per the USP.

The uniquely designed outflow path has 16 channels for minimum back pressure and allows for less hand pressure from the user making for greater compliance and fewer complaints.

Available in 4mm, 13mm and 25mm polypropylene disposable devices each filter is **color coded for pore size and membrane type** for the different proprietary membranes including Nylon, PTFE, Hydrophilic PTFE, PVDF, Regenerated Cellulose, Cellulose Acetate, PES and PES certified for ICP-MS.

For samples, ordering or technical information, please inquire or visit our website.



# Everyday, Reliable Precision Analytical HPLC Columns



USP & New Methods Quick Ordering Guide

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