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# **SMALL but MIGHTY**




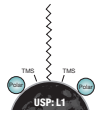
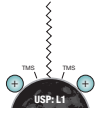
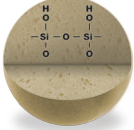
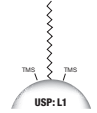
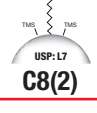

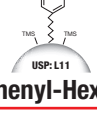

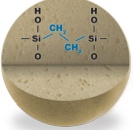
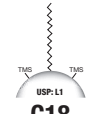
 **phenomenex**<sup>®</sup>  
...breaking with tradition<sup>SM</sup>



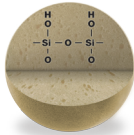
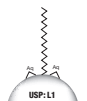

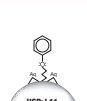

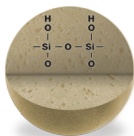
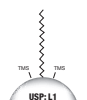

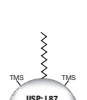
[www.phenomenex.com](http://www.phenomenex.com)

Phenomenex has extended its large range of high quality reversed phase selectivities to capillary and trap formats. These materials will allow you to get greater separation power for all your microflow applications.



Media	Media Benefits	Phase	Selectivity Overview
 <p><b>Luna® Omega</b> (100Å)</p>	<p>Unique high efficiency and extremely robust fully porous silica that offers astounding performance and inertness alongside versatile selectivities. Micropores in the silica are eliminated through proprietary thermal processing technology, resulting in improved efficiency, inertness, and reproducibility.</p>	 <p><b>Polar C18</b></p>	<ul style="list-style-type: none"> <li>- Polar modified surface enhances polar compound retention</li> <li>- C18 ligand provides general hydrophobic interactions</li> <li>- 100% aqueous stable</li> </ul>
		 <p><b>PS C18</b></p>	<ul style="list-style-type: none"> <li>- Positively charged ligand aids in acidic compound retention; also improves basic compound peak shape through ionic repulsion</li> <li>- C18 ligand provides general hydrophobic interactions</li> <li>- 100% aqueous stable</li> </ul>
 <p><b>Luna</b> (100Å)</p>	<p>World renowned HPLC media with excellent mechanical strength, high surface area, and a wide variety of selectivities. Scalable from capillary to preparative and purification scale solutions.</p>	 <p><b>C18(2)</b></p>	<ul style="list-style-type: none"> <li>- Densely bonded C18 providing high hydrophobic retention</li> <li>- High endcapping level to reduce secondary interactions</li> </ul>
		 <p><b>C8(2)</b></p>	<ul style="list-style-type: none"> <li>- C8 ligand that offers less hydrophobic retention than C18</li> <li>- Additional steric and hydrogen bond capacity</li> </ul>
		 <p><b>NH<sub>2</sub></b></p>	<ul style="list-style-type: none"> <li>- Amino groups offer greater polar retention</li> <li>- Used under IEX, RP, NP or HILIC</li> </ul>
		 <p><b>Phenyl-Hexyl</b></p>	<ul style="list-style-type: none"> <li>- Phenyl phase that provides increased aromatic retention</li> <li>- Six carbon linker and phenyl ring provide some hydrophobic interactions</li> </ul>
		 <p><b>HILIC</b></p>	<ul style="list-style-type: none"> <li>- Polar diol phase that provides increased polar retention under HILIC conditions</li> </ul>
 <p><b>Gemini®</b> (100Å)</p>	<p>High efficiency organo-silica particle in which organic groups are grafted into the layers of the silica particle making it more resistant to silica dissolution at higher pHs; providing method development opportunity from pH 1-12.</p>	 <p><b>C18</b></p>	<ul style="list-style-type: none"> <li>- C18 ligand provides general hydrophobic interactions</li> <li>- Patented surface coverage provides pH stability from 1-12 and added polar retention</li> </ul>



Media	Media Benefits	Phase	Selectivity Overview
 <p><b>Synergi™ (80Å)</b></p>	<p>Four unique phases developed to provide a different selectivity for successful separations of the most complex mixtures and challenging analytes.</p>	 <p><b>Hydro-RP</b></p>	<ul style="list-style-type: none"> <li>- Polar endcapping increases polar compound retention</li> <li>- C18 ligand provides general hydrophobic interactions</li> <li>- 100% aqueous stable</li> </ul>
		 <p><b>Fusion-RP</b></p>	<ul style="list-style-type: none"> <li>- Polar embedded groups increase polar compound retention</li> <li>- C18 ligand provides general hydrophobic interactions</li> <li>- 100% aqueous stable</li> </ul>
		 <p><b>Polar-RP</b></p>	<ul style="list-style-type: none"> <li>- Polar endcapping increases polar compound retention</li> <li>- Ether linked phenyl provides combined polar and aromatic retention</li> <li>- 100% aqueous stable</li> </ul>
		 <p><b>Max-RP</b></p>	<ul style="list-style-type: none"> <li>- Densely bonded C12 providing hydrophobic interactions</li> <li>- Additional steric selectivity provided by high density C12 bonding</li> </ul>
 <p><b>Jupiter® (300Å and 90Å)</b></p>	<p>High strength silica media for the identification and characterization of intact proteins/peptides, alongside analysis of peptide maps. Optimized to provide excellent reproducibility.</p>	 <p><b>C18</b></p>	<ul style="list-style-type: none"> <li>- Wide pore (300Å) C18 provides greatest hydrophobic retention for proteins</li> <li>- Best suited for polar proteins</li> </ul>
		 <p><b>C4</b></p>	<ul style="list-style-type: none"> <li>- Wide pore (300Å) C4 provides low hydrophobic retention for proteins</li> <li>- Best suited for sticky, non polar proteins that typically adsorb to a C18</li> </ul>
		 <p><b>Proteo</b></p>	<ul style="list-style-type: none"> <li>- High surface area 90Å particle densely bonded with C12</li> <li>- Designed for peptide mapping</li> </ul>

## Recommendations

### General Screening and Popular Applications

<b>General Purpose C18</b>	Luna™ C18(2) Luna Omega Polar C18	<b>Very Hydrophobic Compounds</b>	Luna C8(2) Jupiter C4	<b>Intact Proteins</b>	Jupiter C4 Jupiter C18
<b>Polar Bases and Neutrals</b>	Luna Omega Polar C18 Synergi Fusion-RP	<b>Aromatic Compounds</b>	Luna Phenyl-Hexyl Synergi Polar-RP	<b>Peptide Quant</b>	Luna Omega PS C18 Luna C18(2)
<b>Polar Acids</b>	Luna Omega PS C18 Synergi Hydro-RP	<b>Improved Peak Shape for Bases</b>	Luna Omega PS C18 Synergi Max-RP	<b>Peptide Mapping</b>	Luna Omega PS C18 Jupiter Proteo
<b>HILIC Conditions</b>	Luna HILIC Luna NH <sub>2</sub>	<b>Alkaline Mobile Phase</b>	Gemini® C18	<b>Metabolomics Screening</b>	Luna NH <sub>2</sub>

# Ordering Information

Capillary Columns (mm)							Trap Column
Phases	50 x 0.3	50 x 0.3 MicroT*	100 x 0.3	150 x 0.3	150 x 0.3 MicroT*	250 x 0.3	20 x 0.3
Luna Omega 3 µm Polar C18	00B-4760-AC	-	00D-4760-AC	00F-4760-AC	-	-	03M-4754-AC
Luna Omega 3 µm PS C18	00B-4758-AC	-	00D-4758-AC	00F-4758-AC	-	-	03M-4753-AC
Luna 3 µm C18(2)	00B-4251-AC	-	00D-4251-AC	00F-4251-AC	-	-	-
Luna 5 µm C18(2)	00B-4252-AC	-	-	00F-4252-AC	00F-4252-AC-MT	-	03M-4252-AC
Luna 3 µm C8(2)	00B-4248-AC	-	00D-4248-AC	-	-	-	03M-4248-AC
Luna 5 µm C8(2)	-	-	-	00F-4249-AC	-	-	03M-4249-AC
Luna 3 µm NH <sub>2</sub>	-	-	-	00F-4377-AC	-	-	-
Luna 3 µm Phenyl-Hexyl	-	-	00D-4256-AC	00F-4256-AC	-	-	-
Luna 5 µm Phenyl-Hexyl	00B-4257-AC	-	-	-	-	-	-
Synergi 4 µm Hydro-RP	00B-4375-AC	-	-	00F-4375-AC	-	-	03M-4375-AC
Synergi 4 µm Fusion-RP	00B-4424-AC	-	-	00F-4424-AC	-	-	03M-4424-AC
Synergi 4 µm Max-RP	00B-4337-AC	-	-	-	-	-	03M-4337-AC
Synergi 4 µm Polar-RP	-	-	-	00F-4336-AC	-	-	-
Gemini 3 µm C18	00B-4439-AC	-	-	00F-4439-AC	-	-	-
Jupiter 4 µm Proteo	00B-4396-AC	00B-4396-AC-MT	-	00F-4396-AC	-	00G-4375-AC	-
Jupiter 5 µm C18	00B-4053-AC	-	-	00F-4053-AC	-	-	-
Jupiter 5 µm C4	00B-4167-AC	-	-	00F-4167-AC	-	-	03M-4167-AC

\*MicroT hardware is designed for use with specific Eksigent systems.

Capillary Columns (mm)					Trap Column
Phases	50 x 0.5	100 x 0.5	150 x 0.5	250 x 0.5	20 x 0.5
Luna Omega 3 µm Polar C18	00B-4760-AF	00B-4760-AF	00B-4760-AF	-	-
Luna Omega 3 µm PS C18	00B-4758-AF	00D-4758-AF	00F-4758-AF	-	-
Luna 3 µm C18(2)	00B-4251-AF	00D-4251-AF	00D-4251-AF	-	-
Luna 5 µm C18(2)	-	-	00F-4252-AF	00F-4252-AF	03M-4252-AF
Luna 3 µm C8(2)	00B-4248-AF	-	00D-4248-AF	-	03M-4249-AF
Luna 5 µm C8(2)	-	-	-	-	03M-4248-AF
Luna 3 µm Phenyl-Hexyl	-	00D-4256-AF	-	-	-
Luna 5 µm Phenyl-Hexyl	00B-4257-AF	-	00F-4257-AF	-	-
Luna 3 µm HILIC	00B-4449-AF	-	-	-	-
Synergi 4 µm Hydro-RP	00B-4375-AF	-	-	00G-4375-AF	-
Synergi 4 µm Fusion-RP	-	-	00F-4424-AF	-	-
Synergi 4 µm Max-RP	00B-4337-AF	-	00F-4337-AF	-	-
Synergi 4 µm Polar-RP	-	-	00F-4336-AF	-	-
Gemini 3 µm C18	00B-4439-AF	-	00F-4439-AF	-	-
Jupiter 4 µm Proteo	-	-	00F-4396-AF	-	03M-4396-AF
Jupiter 5 µm C18	00B-4053-AF	-	00F-4053-AF	-	-
Jupiter 5 µm C4	00B-4167-AF	-	00F-4167-AF	-	03M-4167-AF



guarantee

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