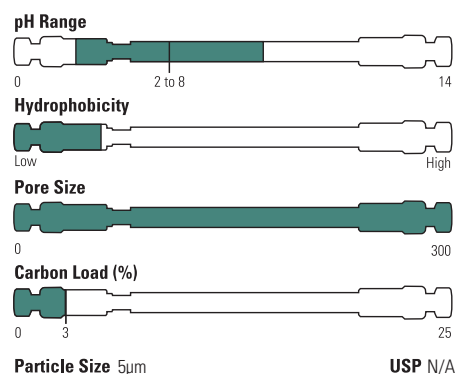


## BioBasic AX

Optimized for the separation of proteins, peptides, other anionic species and polar molecules

- Weak anion exchange phase for multiple charged species
- 300Å pore size for enhanced protein and peptide separations
- Suitable for HILIC retention and separation of highly polar molecules
- Superb stability under demanding pH conditions



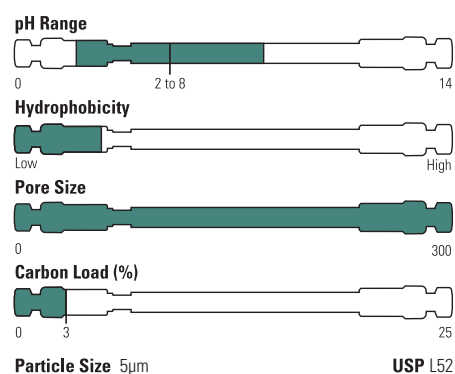
### BioBasic AX

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.6mm ID
5	Drop-in Guard (4/pk) HPLC Column	10	<b>73105-011001</b>	<b>73105-012101</b>	<b>73105-013001</b>	<b>73105-014001</b>
		50	<b>73105-051030</b>	<b>73105-052130</b>	<b>73105-053030</b>	<b>73105-054630</b>
		100	<b>73105-101030</b>	<b>73105-102130</b>	<b>73105-103030</b>	<b>73105-104630</b>
		150	<b>73105-151030</b>	<b>73105-152130</b>	<b>73105-153030</b>	<b>73105-154630</b>
		250	<b>73105-251030</b>	<b>73105-252130</b>	-	<b>73105-254630</b>
	UNIGUARD Guard Cartridge Holder		<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

## BioBasic SCX

For the separation of proteins, peptides, and other cationic species

- Strong cation exchange phase based on sulfonic acid chemistry
- Separation and retention of basic and other cationic species
- 300Å pore size for enhanced protein and peptide separations
- Outstanding stability under demanding pH conditions



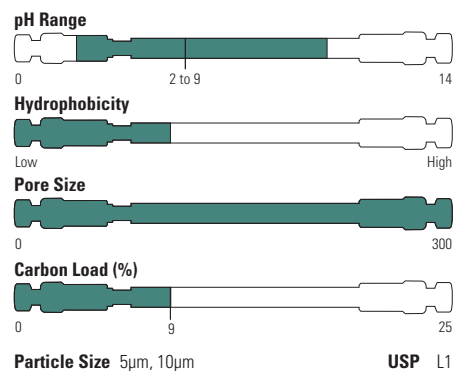
### BioBasic SCX

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.6mm ID
5	Drop-in Guard (4/pk) HPLC Column	10	<b>73205-011001</b>	<b>73205-012101</b>	<b>73205-013001</b>	<b>73205-014001</b>
		50	<b>73205-051030</b>	<b>73205-052130</b>	<b>73205-053030</b>	<b>73205-054630</b>
		100	<b>73205-101030</b>	<b>73205-102130</b>	<b>73205-103030</b>	<b>73205-104630</b>
		150	<b>73205-151030</b>	<b>73205-152130</b>	<b>73205-153030</b>	<b>73205-154630</b>
		250	<b>73205-251030</b>	<b>73205-252130</b>	-	<b>73205-254630</b>
	UNIGUARD Guard Cartridge Holder		<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

## BioBasic 18

Outstanding separation of small to medium peptides

- C18 with 300Å pore size for maximum performance with biomolecules
- High peak capacity stationary phase
- Outstanding reproducibility, efficiency and column lifetime
- Excellent for LC-MS separations



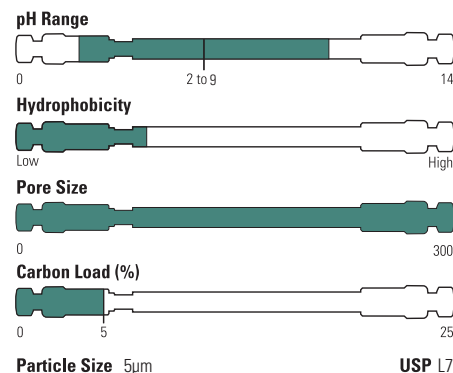
### BioBasic 18

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.6mm ID
5	Drop-in Guard (4/pk) HPLC Column	10	<b>72105-011001</b>	<b>72105-012101</b>	<b>72105-013001</b>	<b>72105-014001</b>
		50	<b>72105-051030</b>	<b>72105-052130</b>	-	-
		100	<b>72105-101030</b>	<b>72105-102130</b>	<b>72105-103030</b>	<b>72105-104630</b>
		150	<b>72105-151030</b>	<b>72105-152130</b>	-	<b>72105-154630</b>
		250	<b>72105-251030</b>	<b>72105-252130</b>	-	<b>72105-254630</b>
	UNIGUARD Guard Cartridge Holder		<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

## BioBasic 8

Optimized for the separation of a wide range of peptides

- C8 with 300Å pore size for improved biomolecule analysis
- An excellent starting column for protein and peptide analysis
- Outstanding reproducibility, efficiency and column lifetime
- Excellent for LC-MS separations

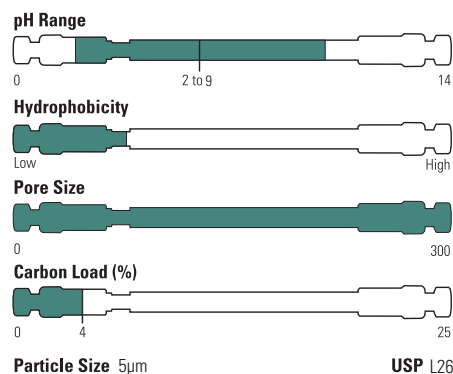


### BioBasic 8

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.6mm ID
5	Drop-in Guard (4/pk) HPLC Column	10	<b>72205-011001</b>	<b>72205-012101</b>	<b>72205-013001</b>	<b>72205-014001</b>
		50	<b>72205-051030</b>	<b>72205-052130</b>	-	-
		100	<b>72205-101030</b>	<b>72205-102130</b>	<b>72205-103030</b>	<b>72205-104630</b>
		150	<b>72205-151030</b>	<b>72205-152130</b>	-	<b>72205-154630</b>
		250	<b>72205-251030</b>	<b>72205-252130</b>	-	<b>72205-254630</b>
	UNIGUARD Guard Cartridge Holder		<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

## BioBasic 4

- Based on 300Å silica for outstanding biomolecule performance
- C4 with lower carbon load for optimal retention of larger peptides and proteins
- Outstanding reproducibility, efficiency and column lifetime
- Excellent for LC-MS separations



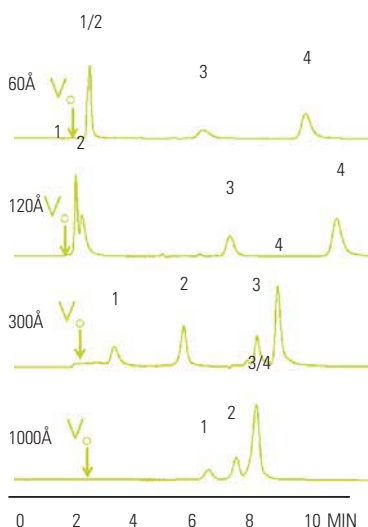
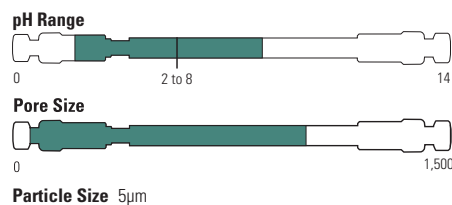
### BioBasic 4

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.6mm ID
5	Drop-in Guard (4/pk) HPLC Column	10	<b>72305-011001</b>	<b>72305-012101</b>	<b>72305-013001</b>	<b>72305-014001</b>
		50	<b>72305-051030</b>	<b>72305-052130</b>	-	-
		100	<b>72305-101030</b>	<b>72305-102130</b>	<b>72305-103030</b>	<b>72305-104630</b>
		150	<b>72305-151030</b>	<b>72305-152130</b>	-	<b>72305-154630</b>
		250	<b>72305-251030</b>	<b>72305-252130</b>	-	<b>72305-254630</b>
	UNIGUARD Guard Cartridge Holder		<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

## BioBasic SEC

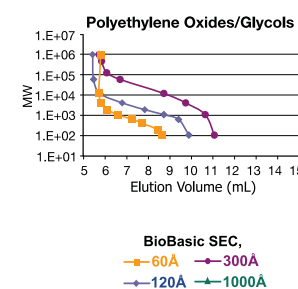
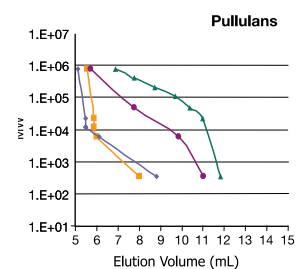
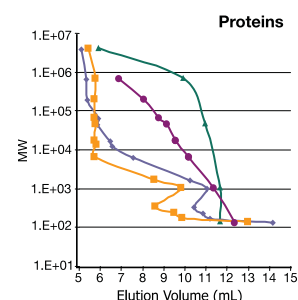
Superior separation of water soluble compounds

- Covers separation of analytes over a wide molecular weight range
- Long column life and high column efficiencies
- Simple mechanism of interaction based on molecular size and shape
- Ideal for sample clean-up
- Straightforward method development, simple mobile phases



**BioBasic SEC, 5µm, 300 x 7.8mm**  
 Mobile Phase: 0.1M KH<sub>2</sub>PO<sub>4</sub>, pH 7  
 Flow Rate: 1.0mL/min  
 Injection Volume: 20µL  
 Detection: UV, 254nm  
 Analytes: 1. Thyroglobulin (MW669,00)  
 2. Ovalbumin (MW 45,000)  
 3. Angiotensin II (MW 1,046)  
 4. PABA (V<sub>0</sub>) (MW 137)

Effect of pore size on SEC resolution



Molecular weight calibration curves

### BioBasic SEC

Pore Size (Å)	Description	ID (mm)	Length (mm)	Cat. No.
<b>BioBasic SEC 60</b>				
60	Guard Column	7.8	30	73305-037821
	HPLC Column	7.8	150	73305-157846
	HPLC Column	7.8	300	73305-307846
<b>BioBasic SEC 120</b>				
120	Guard Column	7.8	30	73405-037821
	HPLC Column	7.8	150	73405-157846
	HPLC Column	7.8	300	73405-307846
<b>BioBasic SEC 300</b>				
300	Guard Column	7.8	30	73505-037821
	HPLC Column	7.8	150	73505-157846
	HPLC Column	7.8	300	73505-307846
<b>BioBasic SEC 1000</b>				
1000	Guard Column	7.8	30	73605-037821
	HPLC Column	7.8	150	73605-157846
	HPLC Column	7.8	300	73605-307846