

VertiSep™ AQS

VertiSep™ AQS HPLC Columns

- Ultra-high purity spherical silica offer excellent stability, efficiency and column-to-column reproducibility
- Stable and strong retention in 100% aqueous mobile phase for hydrophilic or polar compounds
- High carbon loading C18 offers high degree of hydrophobicity
- High surface area offers high resolution for gradient elution of difficult separation compounds
- Fully endcapped to improve peak shape
- Monomeric bonding offers low back pressure and high column efficiency to better resolve chemically similar analytes.



VertiSep™ AQS packings are ultra-high purity silica which contains less amounts of metal ions and sulfate contaminants offer excellent stability, efficiency, column-to-column reproducibility and long lifetime at high and low pH levels at pH 1.5-10.0* and ideal for LC/MS or ELSD application.

VertiSep™ AQS packings are stable and strong retention in 100% aqueous mobile phase for hydrophilic or polar compounds such as biomolecules, metabolites, oligosaccharides, amino acids, small peptides, nucleotides and organic acids.

VertiSep™ AQS packings are high surface of 300 m²/g offer high capacity and high resolution for fast gradient elution.

VertiSep™ AQS reverse phase C18 packings are high carbon loading of 15% offering the high degree of hydrophobicity.

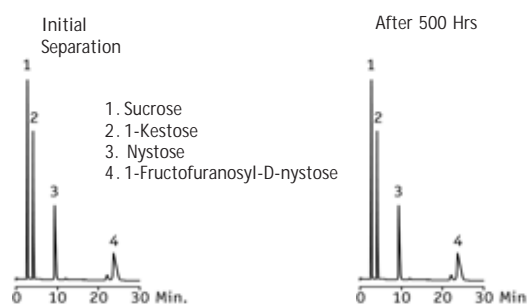
VertiSep™ AQS reverse phase packings are fully endcapped and show selectivity as conventional C18 phases.

VertiSep™ AQS packings are monomeric bonding resulting in lower column back pressure and high column efficiency to better resolve chemically similar analytes.

VertiSep™ AQS Packing Specifications

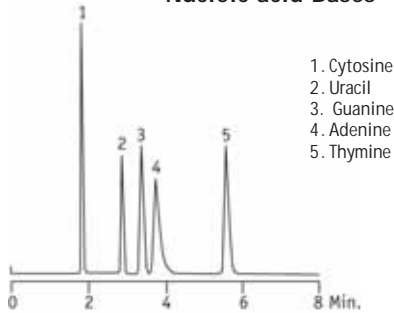
Packing	Particle Size (µm)	Carbon Load (%)	Pore Size (Å)	Pore Volume (mL/g)	Surface Area (m ² /g)	End Capped
C18	3,5,10	15	120	1.0	300	Yes
C8	3,5,10	8	120	1.0	300	Yes
Ph	3,5,10	7	120	1.0	300	Yes
CN	3,5,10	4	120	1.0	300	No
NH2	3,5,10	3	120	1.0	300	No
Si	3,5,10	-	120	1.0	300	No
Diol	3,5,10	-	120	1.0	300	No

Stability Test



Column: VertiSep™ AQS C18 5µ 4.6x150mm
Mobile Phase: Water
Flow Rate: 1.0mL/min
Detection: RI

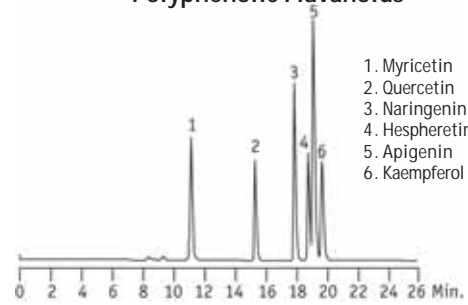
Nucleic acid Bases



1. Cytosine
2. Uracil
3. Guanine
4. Adenine
5. Thymine

Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: ACN/25nM KH₂PO₄ (pH 3.0)=2/98
 Flow Rate: 1.0mL/min
 Detection: UV254nm

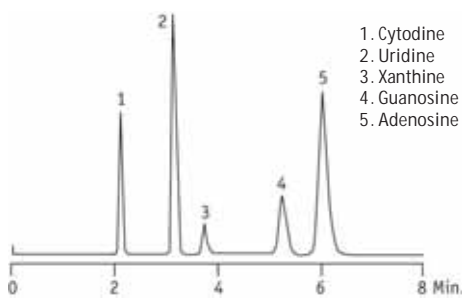
Polyphenolic Flavanoids



1. Myricetin
2. Quercetin
3. Naringenin
4. Hesperetin
5. Apigenin
6. Kaempferol

Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: A: 25nM KH₂PO₄, B: ACN
 Gradient: Time/%B : 0/20, 15/40, 25/40
 Flow Rate: 1mL/min
 Detection: UV280nm

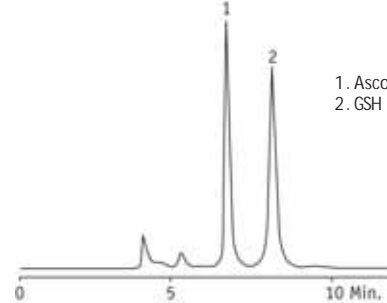
Nucleosides



1. Cytidine
2. Uridine
3. Xanthine
4. Guanosine
5. Adenosine

Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: ACN/25nM KH₂PO₄ (pH 3.0)=4/96
 Flow Rate: 1.0mL/min
 Detection: UV254nm

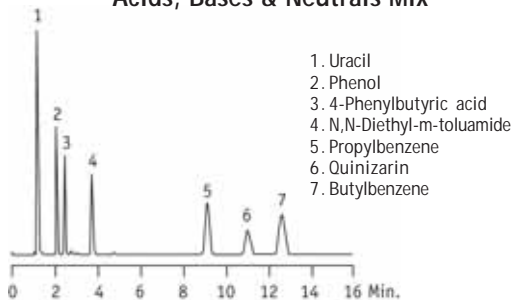
Antioxidants



1. Ascorbic acid
2. GSH

Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: 0.1M Phosphante (pH 3.1)
 Flow Rate: 1.0mL/min
 Detection: ECD

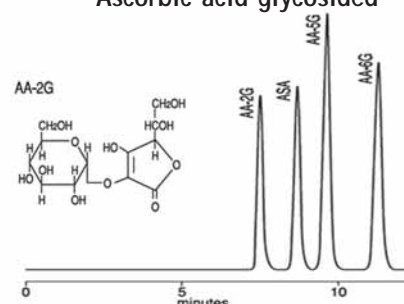
Acids, Bases & Neutrals Mix



1. Uracil
2. Phenol
3. 4-Phenylbutyric acid
4. N,N-Diethyl-m-toluamide
5. Propylbenzene
6. Quinizarin
7. Butylbenzene

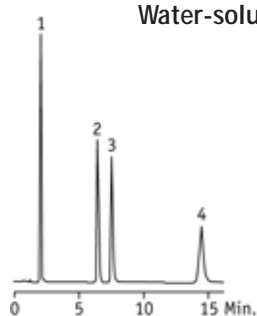
Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: ACN/25nM KH₂PO₄ (pH 2.5)=65/35
 Flow Rate: 1.0mL/min
 Detection: UV254nm

Ascorbic acid glycosided



Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: KH₂PO₄ -H₃PO₄(pH)
 Flow Rate: 0.7mL/min
 Detection: UV240nm

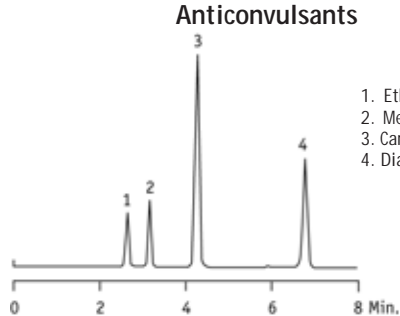
Water-soluble Vitamins



1. Nicotinamide
2. L-Ascorbic acid
3. D-iso-Ascorbic acid
4. Nicotinic acid

Column: VertiSep™ AQS C8 5µm 4.6x150mm
 Mobile Phase: CH₃CN/5mM Cetyltrimethylammonium Br⁺ + 50mM KH₂PO₄(pH4 by H₃PO₄)=5/95
 Flow Rate: 1.0mL/min
 Detection: UV254nm

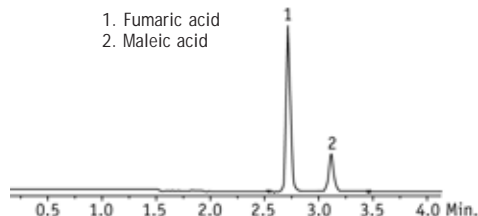
Anticonvulsants



1. Ethotoin
2. Mephenytoin
3. Carbamazepine
4. Diazepam

Column: VertiSep™ AQS Ph 5µm 4.6x150mm
 Mobile Phase: A: Water B: Acetonitrile
 Gradient: Time/%B, 0/25, 15/60
 Flow Rate: 1.5mL/min
 Detection: UV254nm

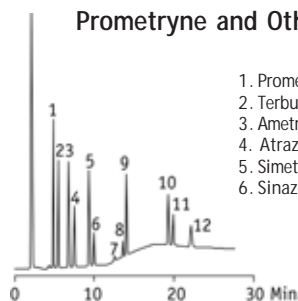
Maleic and Fumaric Acids



1. Fumaric acid
2. Maleic acid

Column: VertiSep™ AQS C18 5µm 4.6x250mm
 Mobile Phase: 50mM KH₂PO₄(pH 7.0)
 Flow Rate: 1.0mL/min
 Detection: UV210nm

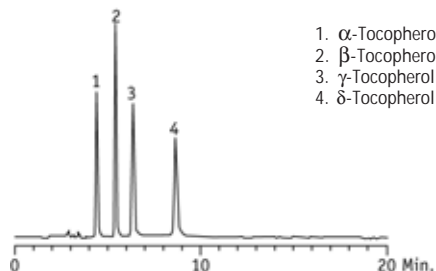
Prometryne and Other Pesticides



- | | |
|---------------|---------------|
| 1. Prometryne | 7. Propoxur |
| 2. Terbutryne | 8. Carbofuran |
| 3. Ametryne | 9. Carbaryl |
| 4. Atrazine | 10. Fenuron |
| 5. Simetryne | 11. Monuron |
| 6. Sinazine | 12. Methomyl |

Column: VertiSep™ AQS C18 5µm 4.6x150mm
 Mobile Phase: A: n-Hexane B: C₂H₅OH
 Gradient: Time/%B, 0/1, 6/2
 Flow Rate: 1.0mL/min
 Detection: UV230nm

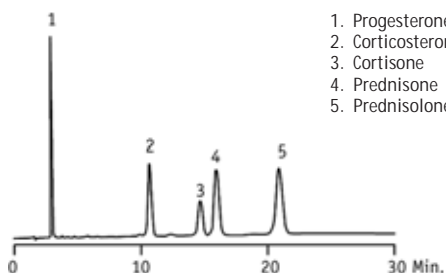
Tocopherol



1. α-Tocopherol
2. β-Tocopherol
3. γ-Tocopherol
4. δ-Tocopherol

Column: VertiSep™ AQS NH2 5µm 4.6x250mm
 Mobile Phase: Ethyl Acetate:Hexane (30:70)
 Flow Rate: 1.0mL/min
 Detection: UV290nm

Steroids



1. Progesterone
2. Corticosterone
3. Cortisone
4. Prednisone
5. Prednisolone

Column: VertiSep™ AQS Diol 5µm 4.6x150mm
 Mobile Phase: Hexane:Ethanol (85:15)
 Flow Rate: 1.0mL/min
 Detection: UV254nm

VertiSep™ AQS Columns				
Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
C18	3	Ultra-Fast	2.1 x 10	03DA-B111
	3	Ultra-Fast	2.1 x 20	03DA-B611
	3	Ultra-Fast	2.1 x 50	03DA-B211
	3	LC/MS	2.1 x 100	03DA-B311
	3	LC/MS	2.1 x 150	03DA-B411
	3	LC/MS	3.2 x 100	03DA-C311
	3	LC/MS	3.2 x 150	03DA-C411
	3	Fast	4.6 x 50	03DA-E211
	3	Analytical	4.6 x 100	03DA-E311
	3	Analytical	4.6 x 150	03DA-E411
	3	Fast	7.8 x 50	03DA-G211
	3	Analytical	7.8 x 100	03DA-G311
	5	LC/MS	2.1 x 100	03DA-B321
	5	LC/MS	2.1 x 150	03DA-B421
	5	LC/MS	3.2 x 100	03DA-C321
	5	LC/MS	3.2 x 150	03DA-C421
	5	LC/MS	3.2 x 250	03DA-C521
	5	Fast	4.6 x 50	03DA-E221
	5	Analytical	4.6 x 100	03DA-E321
	5	Analytical	4.6 x 150	03DA-E421
	5	Analytical	4.6 x 250	03DA-E521
	5	Prep	10.0 x 150	03DA-H421
	5	Prep	10.0 x 250	03DA-H521
	5	Prep	21.2 x 150	03DA-I421
	5	Prep	21.2 x 250	03DA-I521
	10	Analytical	4.6 x 250	03DA-E531
	10	Prep	10.0 x 150	03DA-H431
	10	Prep	10.0 x 250	03DA-H531
	10	Prep	21.2 x 150	03DA-I431
	10	Prep	21.2 x 250	03DA-I531
	10	Prep	30.0 x 150	03DA-J431
	10	Prep	30.0 x 250	03DA-J531
	10	Prep	50.0 x 150	03DA-K431
	10	Prep	50.0 x 250	03DA-K531

VertiSep™ AQS Columns				
Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
C8	3	Ultra-Fast	2.1 x 10	03DB-B111
	3	Ultra-Fast	2.1 x 20	03DB-B611
	3	Ultra-Fast	2.1 x 50	03DB-B211
	3	LC/MS	2.1 x 100	03DB-B311
	3	LC/MS	2.1 x 150	03DB-B411
	3	LC/MS	3.2 x 100	03DB-C311
	3	LC/MS	3.2 x 150	03DB-C411
	3	Fast	4.6 x 50	03DB-E211
	3	Analytical	4.6 x 100	03DB-E311
	3	Analytical	4.6 x 150	03DB-E411
	3	Fast	7.8 x 50	03DB-G211
	3	Analytical	7.8 x 100	03DB-G311
	5	LC/MS	2.1 x 100	03DB-B321
	5	LC/MS	2.1 x 150	03DB-B421
	5	LC/MS	3.2 x 100	03DB-C321
	5	LC/MS	3.2 x 150	03DB-C421
	5	LC/MS	3.2 x 250	03DB-C521
	5	Fast	4.6 x 50	03DB-E221
	5	Analytical	4.6 x 100	03DB-E321
	5	Analytical	4.6 x 150	03DB-E421
	5	Analytical	4.6 x 250	03DB-E521
	5	Prep	10.0 x 150	03DB-H421
	5	Prep	10.0 x 250	03DB-H521
	5	Prep	21.2 x 150	03DB-I421
	5	Prep	21.2 x 250	03DB-I521
	10	Analytical	4.6 x 250	03DB-E531
	10	Prep	10.0 x 150	03DB-H431
	10	Prep	10.0 x 250	03DB-H531
	10	Prep	21.2 x 150	03DB-I431
	10	Prep	21.2 x 250	03DB-I531
	10	Prep	30.0 x 150	03DB-J431
	10	Prep	30.0 x 250	03DB-J531
	10	Prep	50.0 x 150	03DB-K431
	10	Prep	50.0 x 250	03DB-K531

VertiSep™ AQS

HPLC Columns

VertiSep™ AQS Columns				
Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
Ph	3	Ultra-Fast	2.1 x 10	03DD-B111
	3	Ultra-Fast	2.1 x 20	03DD-B611
	3	Ultra-Fast	2.1 x 50	03DD-B211
	3	LC/MS	2.1 x 100	03DD-B311
	3	LC/MS	2.1 x 150	03DD-B411
	3	LC/MS	3.2 x 100	03DD-C311
	3	LC/MS	3.2 x 150	03DD-C411
	3	Fast	4.6 x 50	03DD-E211
	3	Analytical	4.6 x 100	03DD-E311
	3	Analytical	4.6 x 150	03DD-E411
	3	Fast	7.8 x 50	03DD-G211
	3	Analytical	7.8 x 100	03DD-G311
	5	LC/MS	2.1 x 100	03DD-B321
	5	LC/MS	2.1 x 150	03DD-B421
	5	LC/MS	3.2 x 100	03DD-C321
	5	LC/MS	3.2 x 150	03DD-C421
	5	LC/MS	3.2 x 250	03DD-C521
	5	Fast	4.6 x 50	03DD-E221
	5	Analytical	4.6 x 100	03DD-E321
	5	Analytical	4.6 x 150	03DD-E421
	5	Analytical	4.6 x 250	03DD-E521
	5	Prep	10.0 x 150	03DD-H421
	5	Prep	10.0 x 250	03DD-H521
	5	Prep	21.2 x 150	03DD-I421
	5	Prep	21.2 x 250	03DD-I521
	10	Analytical	4.6 x 250	03DD-E531
	10	Prep	10.0 x 150	03DD-H431
	10	Prep	10.0 x 250	03DD-H531
	10	Prep	21.2 x 150	03DD-I431
	10	Prep	21.2 x 250	03DD-I531
	10	Prep	30.0 x 150	03DD-J431
	10	Prep	30.0 x 250	03DD-J531
	10	Prep	50.0 x 150	03DD-K431
	10	Prep	50.0 x 250	03DD-K531

VertiSep™ AQS Columns				
Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
CN	3	Ultra-Fast	2.1 x 10	03DE-B111
	3	Ultra-Fast	2.1 x 20	03DE-B611
	3	Ultra-Fast	2.1 x 50	03DE-B211
	3	LC/MS	2.1 x 100	03DE-B311
	3	LC/MS	2.1 x 150	03DE-B411
	3	LC/MS	3.2 x 100	03DE-C311
	3	LC/MS	3.2 x 150	03DE-C411
	3	Fast	4.6 x 50	03DE-E211
	3	Analytical	4.6 x 100	03DE-E311
	3	Analytical	4.6 x 150	03DE-E411
	3	Fast	7.8 x 50	03DE-G211
	3	Analytical	7.8 x 100	03DE-G311
	5	LC/MS	2.1 x 100	03DE-B321
	5	LC/MS	2.1 x 150	03DE-B421
	5	LC/MS	3.2 x 100	03DE-C321
	5	LC/MS	3.2 x 150	03DE-C421
	5	LC/MS	3.2 x 250	03DE-C521
	5	Fast	4.6 x 50	03DE-E221
	5	Analytical	4.6 x 100	03DE-E321
	5	Analytical	4.6 x 150	03DE-E421
	5	Analytical	4.6 x 250	03DE-E521
	5	Prep	10.0 x 150	03DE-H421
	5	Prep	10.0 x 250	03DE-H521
	5	Prep	21.2 x 150	03DE-I421
	5	Prep	21.2 x 250	03DE-I521
	10	Analytical	4.6 x 250	03DE-E531
	10	Prep	10.0 x 150	03DE-H431
	10	Prep	10.0 x 250	03DE-H531
	10	Prep	21.2 x 150	03DE-I431
	10	Prep	21.2 x 250	03DE-I531
	10	Prep	30.0 x 150	03DE-J431
	10	Prep	30.0 x 250	03DE-J531
	10	Prep	50.0 x 150	03DE-K431
	10	Prep	50.0 x 250	03DE-K531

VertiSep™ AQS Columns				
Packing	Particle Size		I.D.	
	(µm)	Formats	Length (mm)	Part No.
NH2	3	Ultra-Fast	2.1 x 10	03DF-B111
	3	Ultra-Fast	2.1 x 20	03DF-B611
	3	Ultra-Fast	2.1 x 50	03DF-B211
	3	LC/MS	2.1 x 100	03DF-B311
	3	LC/MS	2.1 x 150	03DF-B411
	3	LC/MS	3.2 x 100	03DF-C311
	3	LC/MS	3.2 x 150	03DF-C411
	3	Fast	4.6 x 50	03DF-E211
	3	Analytical	4.6 x 100	03DF-E311
	3	Analytical	4.6 x 150	03DF-E411
	3	Fast	7.8 x 50	03DF-G211
	3	Analytical	7.8 x 100	03DF-G311
	5	LC/MS	2.1 x 100	03DF-B321
	5	LC/MS	2.1 x 150	03DF-B421
	5	LC/MS	3.2 x 100	03DF-C321
	5	LC/MS	3.2 x 150	03DF-C421
	5	LC/MS	3.2 x 250	03DF-C521
	5	Fast	4.6 x 50	03DF-E221
	5	Analytical	4.6 x 100	03DF-E321
	5	Analytical	4.6 x 150	03DF-E421
	5	Analytical	4.6 x 250	03DF-E521
	5	Prep	10.0 x 150	03DF-H421
	5	Prep	10.0 x 250	03DF-H521
	5	Prep	21.2 x 150	03DF-I421
	5	Prep	21.2 x 250	03DF-I521
	10	Analytical	4.6 x 250	03DF-E531
	10	Prep	10.0 x 150	03DF-H431
	10	Prep	10.0 x 250	03DF-H531
	10	Prep	21.2 x 150	03DF-I431
	10	Prep	21.2 x 250	03DF-I531
10	Prep	30.0 x 150	03DF-J431	
10	Prep	30.0 x 250	03DF-J531	
10	Prep	50.0 x 150	03DF-K431	
10	Prep	50.0 x 250	03DF-K531	

VertiSep™ AQS Columns				
Packing	Particle Size		I.D.	
	(µm)	Formats	Length (mm)	Part No.
Si	3	Ultra-Fast	2.1 x 10	03DG-B111
	3	Ultra-Fast	2.1 x 20	03DG-B611
	3	Ultra-Fast	2.1 x 50	03DG-B211
	3	LC/MS	2.1 x 100	03DG-B311
	3	LC/MS	2.1 x 150	03DG-B411
	3	LC/MS	3.2 x 100	03DG-C311
	3	LC/MS	3.2 x 150	03DG-C411
	3	Fast	4.6 x 50	03DG-E211
	3	Analytical	4.6 x 100	03DG-E311
	3	Analytical	4.6 x 150	03DG-E411
	3	Fast	7.8 x 50	03DG-G211
	3	Analytical	7.8 x 100	03DG-G311
	5	LC/MS	2.1 x 100	03DG-B321
	5	LC/MS	2.1 x 150	03DG-B421
	5	LC/MS	3.2 x 100	03DG-C321
	5	LC/MS	3.2 x 150	03DG-C421
	5	LC/MS	3.2 x 250	03DG-C521
	5	Fast	4.6 x 50	03DG-E221
	5	Analytical	4.6 x 100	03DG-E321
	5	Analytical	4.6 x 150	03DG-E421
	5	Analytical	4.6 x 250	03DG-E521
	5	Prep	10.0 x 150	03DG-H421
	5	Prep	10.0 x 250	03DG-H521
	5	Prep	21.2 x 150	03DG-I421
	5	Prep	21.2 x 250	03DG-I521
	10	Analytical	4.6 x 250	03DG-E531
	10	Prep	10.0 x 150	03DG-H431
	10	Prep	10.0 x 250	03DG-H531
	10	Prep	21.2 x 150	03DG-I431
	10	Prep	21.2 x 250	03DG-I531
10	Prep	30.0 x 150	03DG-J431	
10	Prep	30.0 x 250	03DG-J531	
10	Prep	50.0 x 150	03DG-K431	
10	Prep	50.0 x 250	03DG-K531	

VertiSep™ AQS Columns				
Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
Diol	3	Ultra-Fast	2.1 x 10	03DP-B111
	3	Ultra-Fast	2.1 x 20	03DP-B611
	3	Ultra-Fast	2.1 x 50	03DP-B211
	3	LC/MS	2.1 x 100	03DP-B311
	3	LC/MS	2.1 x 150	03DP-B411
	3	LC/MS	3.2 x 100	03DP-C311
	3	LC/MS	3.2 x 150	03DP-C411
	3	Fast	4.6 x 50	03DP-E211
	3	Analytical	4.6 x 100	03DP-E311
	3	Analytical	4.6 x 150	03DP-E411
	3	Fast	7.8 x 50	03DP-G211
	3	Analytical	7.8 x 100	03DP-G311
	5	LC/MS	2.1 x 100	03DP-B321
	5	LC/MS	2.1 x 150	03DP-B421
	5	LC/MS	3.2 x 100	03DP-C321
	5	LC/MS	3.2 x 150	03DP-C421
	5	LC/MS	3.2 x 250	03DP-C521
	5	Fast	4.6 x 50	03DP-E221
	5	Analytical	4.6 x 100	03DP-E321
	5	Analytical	4.6 x 150	03DP-E421
	5	Analytical	4.6 x 250	03DP-E521
	5	Prep	10.0 x 150	03DP-H421
	5	Prep	10.0 x 250	03DP-H521
	5	Prep	21.2 x 150	03DP-I421
	5	Prep	21.2 x 250	03DP-I521
	10	Analytical	4.6 x 250	03DP-E531
	10	Prep	10.0 x 150	03DP-H431
	10	Prep	10.0 x 250	03DP-H531
	10	Prep	21.2 x 150	03DP-I431
	10	Prep	21.2 x 250	03DG-I531
	10	Prep	30.0 x 150	03DP-J431
	10	Prep	30.0 x 250	03DP-J531
	10	Prep	50.0 x 150	03DP-K431
	10	Prep	50.0 x 250	03DP-K531



VertiSep™ AQS Guard Cartridges*, 2/PK

Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
C18	3	Guard	2.1 x 10	03DA-B113
	3	Guard	3.2 x 10	03DA-C113
	3	Guard	4.6 x 10	03DA-E113
	5	Guard	2.1 x 10	03DA-B123
	5	Guard	3.2 x 10	03DA-C123
	5	Guard	4.6 x 10	03DA-E123
	5	Guard	10.0 x 10	03DA-H123
	5	Guard	21.2 x 10	03DA-I123
	10	Guard	4.6 x 10	03DA-E133
	10	Guard	10.0 x 10	03DA-H133
C8	3	Guard	2.1 x 10	03DB-B113
	3	Guard	3.2 x 10	03DB-C113
	3	Guard	4.6 x 10	03DB-E113
	5	Guard	2.1 x 10	03DB-B123
	5	Guard	3.2 x 10	03DB-C123
	5	Guard	4.6 x 10	03DB-E123
	5	Guard	10.0 x 10	03DB-H123
	5	Guard	21.2 x 10	03DB-I123
	10	Guard	4.6 x 10	03DB-E133
	10	Guard	10.0 x 10	03DB-H133
Ph	3	Guard	2.1 x 10	03DD-B113
	3	Guard	3.2 x 10	03DD-C113
	3	Guard	4.6 x 10	03DD-E113
	5	Guard	2.1 x 10	03DD-B123
	5	Guard	3.2 x 10	03DD-C123
	5	Guard	4.6 x 10	03DD-E123
	5	Guard	10.0 x 10	03DD-H123
	5	Guard	21.2 x 10	03DD-I123
	10	Guard	4.6 x 10	03DD-E133
	10	Guard	10.0 x 10	03DD-H133
CN	3	Guard	2.1 x 10	03DE-B113
	3	Guard	3.2 x 10	03DE-C113
	3	Guard	4.6 x 10	03DE-E113
	5	Guard	2.1 x 10	03DE-B123
	5	Guard	3.2 x 10	03DE-C123
	5	Guard	4.6 x 10	03DE-E123
	5	Guard	10.0 x 10	03DE-H123
	5	Guard	21.2 x 10	03DE-I123
	10	Guard	4.6 x 10	03DE-E133
	10	Guard	10.0 x 10	03DE-H133
10	Guard	21.2 x 10	03DE-I133	

*Guard holder required

VertiSep™ AQS Guard Cartridges*, 2/PK

Packing	Particle Size (µm)	Formats	I.D. Length (mm)	Part No.
NH2	3	Guard	2.1 x 10	03DF-B113
	3	Guard	3.2 x 10	03DF-C113
	3	Guard	4.6 x 10	03DF-E113
	5	Guard	2.1 x 10	03DF-B123
	5	Guard	3.2 x 10	03DF-C123
	5	Guard	4.6 x 10	03DF-E123
	5	Guard	10.0 x 10	03DF-H123
	5	Guard	21.2 x 10	03DF-I123
	10	Guard	4.6 x 10	03DF-E133
	10	Guard	10.0 x 10	03DF-H133
Si	3	Guard	2.1 x 10	03DG-B113
	3	Guard	3.2 x 10	03DG-C113
	3	Guard	4.6 x 10	03DG-E113
	5	Guard	2.1 x 10	03DG-B123
	5	Guard	3.2 x 10	03DG-C123
	5	Guard	4.6 x 10	03DG-E123
	5	Guard	10.0 x 10	03DG-H123
	5	Guard	21.2 x 10	03DG-I123
	10	Guard	4.6 x 10	03DG-E133
	10	Guard	10.0 x 10	03DG-H133
Diol	3	Guard	2.1 x 10	03DP-B113
	3	Guard	3.2 x 10	03DP-C113
	3	Guard	4.6 x 10	03DP-E113
	5	Guard	2.1 x 10	03DP-B123
	5	Guard	3.2 x 10	03DP-C123
	5	Guard	4.6 x 10	03DP-E123
	5	Guard	10.0 x 10	03DP-H123
	5	Guard	21.2 x 10	03DP-I123
	10	Guard	4.6 x 10	03DP-E133
	10	Guard	10.0 x 10	03DP-H133
10	Guard	21.2 x 10	03DP-I133	

*Guard holder required

Guard Holder with Coupler

Guard Holder with Coupler	QTY	Part NO.
For column I.D. 2.1-7.8 mm	1	0300-0001
For column I.D. 10 mm	1	0300-0002
For column I.D. 21.2 mm	1	0300-0003

