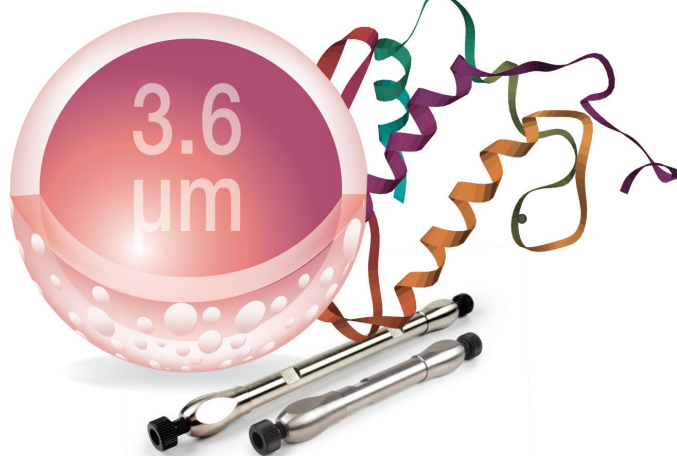


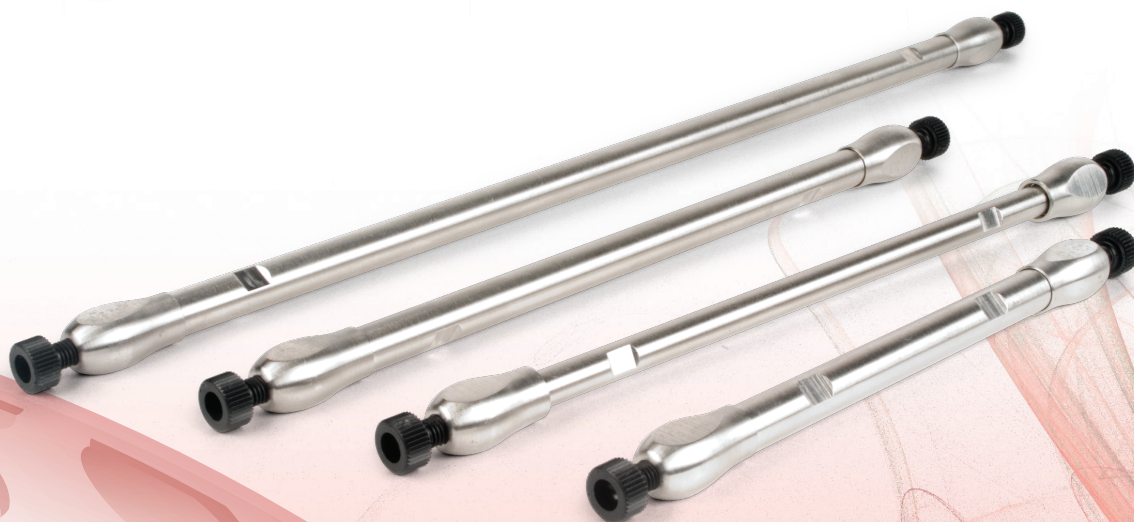
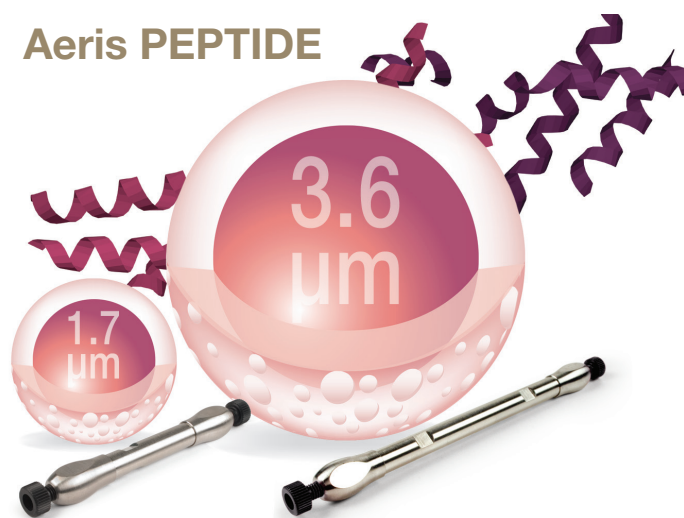
AERIS™ Core-Shell Technology for Proteins and Peptides

Better BioSeparations on HPLC and UHPLC Systems

Aeris WIDEPORÉ



Aeris PEPTIDE



 **phenomenex**[®]
...breaking with traditionSM



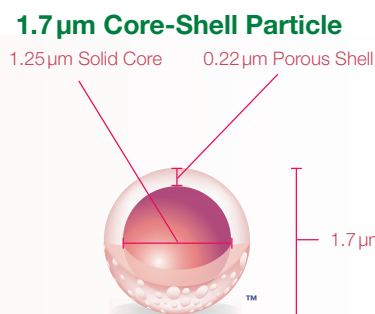
www.phenomenex.com/Aeris

Core-Shell Particles Precision Engineered for Protein and Peptide Separations

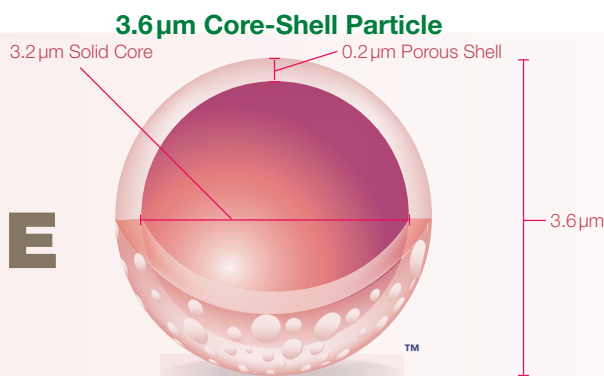
Core-shell particle technology provides **striking increases in peak capacity and resolution** at lower backpressures, giving chromatographers the ability to achieve ultra-high performance on ANY system, HPLC or UHPLC.

Optimizing the pore size and shell thickness for intact proteins or smaller peptide fragments provides well-defined depth penetration of biomolecules leading to **maximum separation power**.

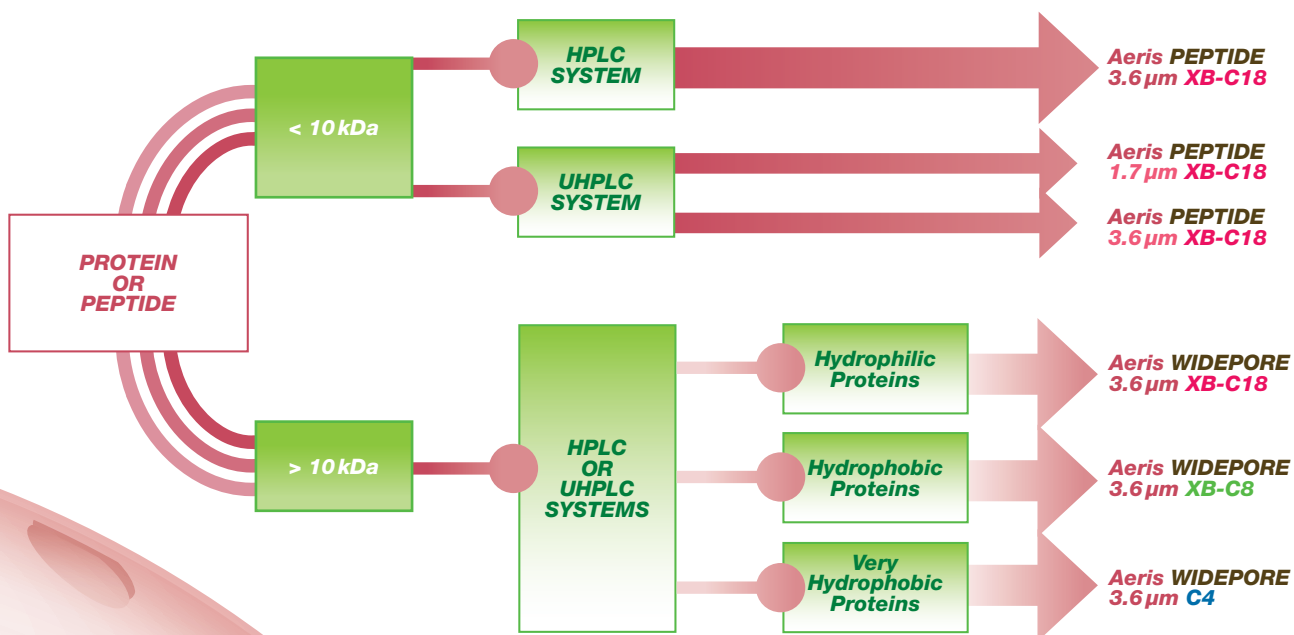
AERIS PEPTIDE



AERIS WIDEPORE



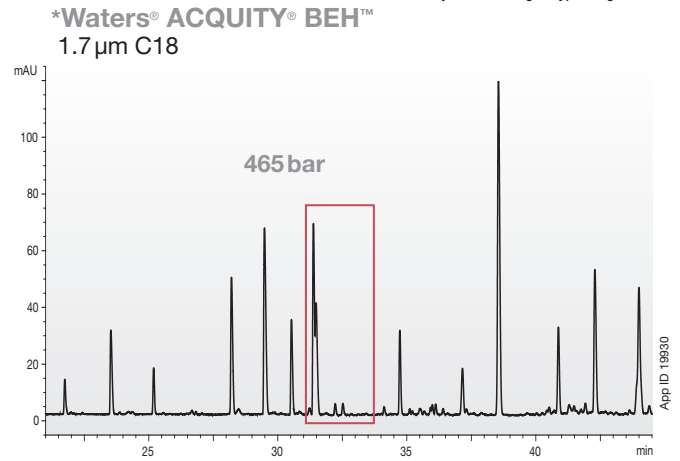
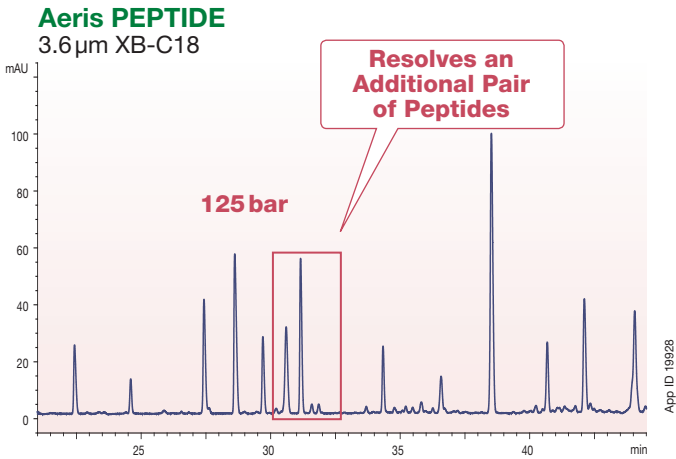
Aeris™ WIDEPORE XB-C18 and Aeris PEPTIDE XB-C18 make a perfect pair for peptide mapping.



Ultra-High Resolving Power on HPLC and UHPLC Systems with Aeris PEPTIDE 3.6 μm Columns

The Aeris™ PEPTIDE 3.6 μm core-shell column was designed with one purpose in mind: to maximize the separation of large numbers of peptides on any HPLC or UHPLC system. Because core-shell particles remove the backpressure constraints of HPLC or UHPLC systems, chromatographers can **achieve the ultra-high performance of similar length sub-2 μm columns at a fraction of the backpressure.**

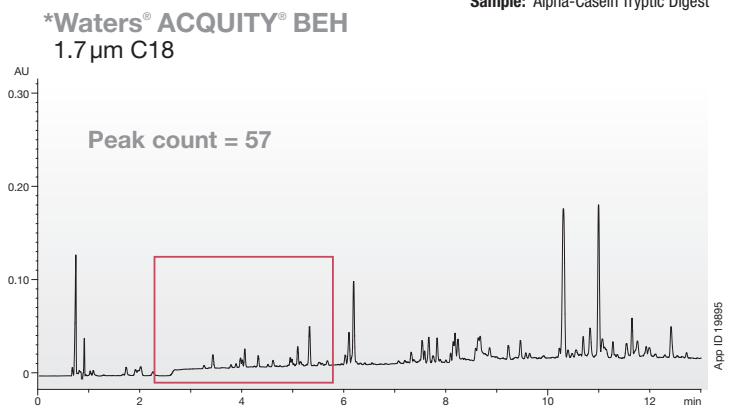
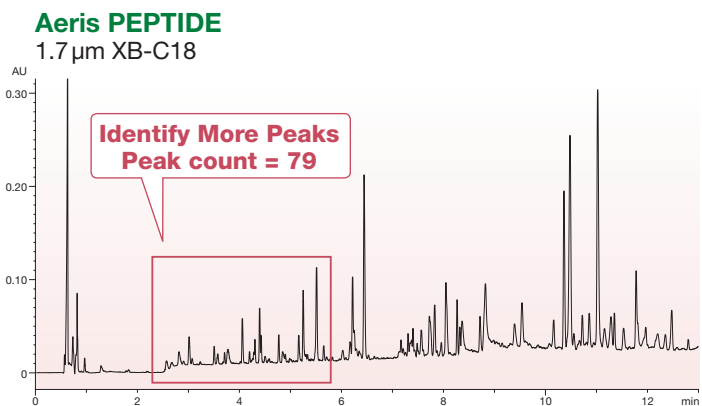
Conditions for both columns:
Column: Aeris PEPTIDE 3.6 μm XB-C18
 ACQUITY® BEH™ 1.7 μm C18
Dimensions: 150 x 2.1 mm
Mobile Phase: A: Water with 0.1% TFA
 B: Acetonitrile with 0.1% TFA
Gradient: A/B (97:3) for 5 min to A/B (55:45) over 55 min
Flow Rate: 0.3 mL/min
Temperature: 40°C
Instrument: Agilent® 1200SL
Detection: UV @ 214 nm (ambient)
Sample: Human IgG Tryptic Digest



Maximize Performance on UHPLC Systems with Aeris PEPTIDE 1.7 μm Technology

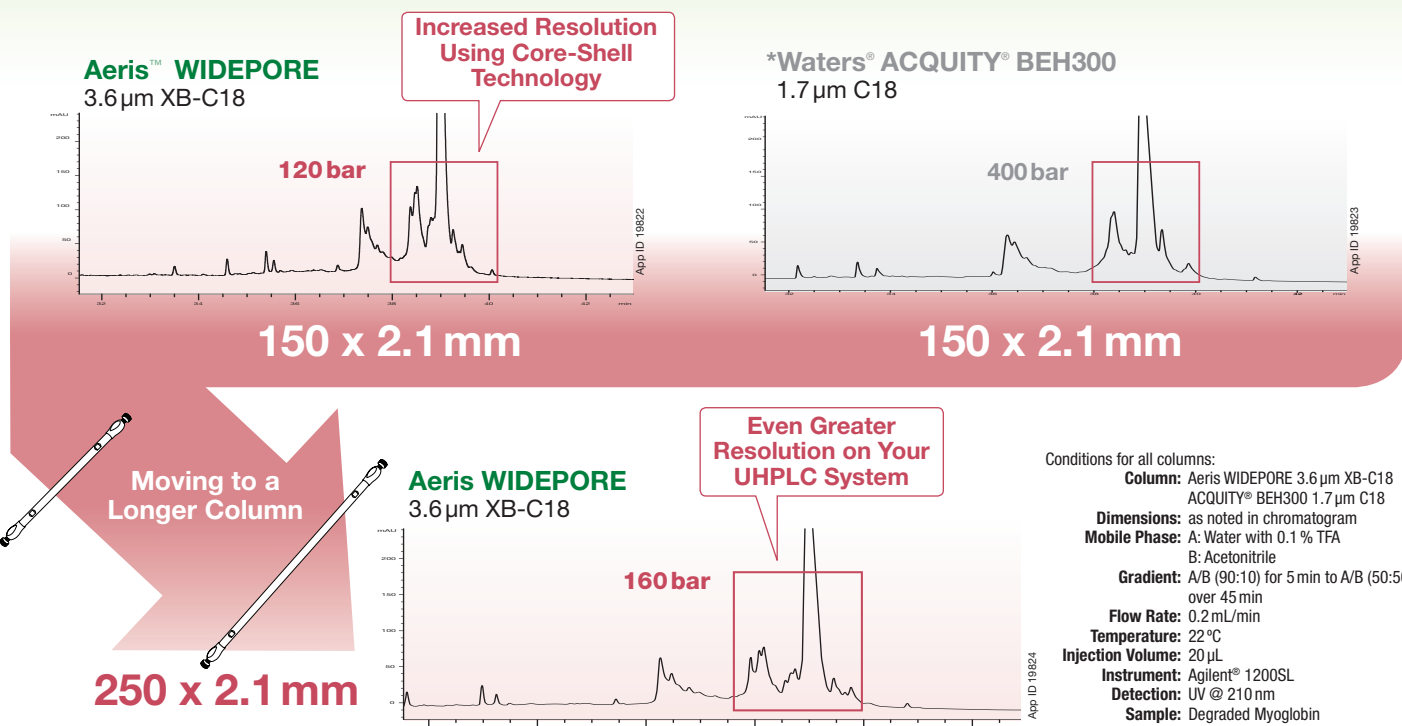
With pressure stability up to 1,000 bar and the high efficiencies brought about by core-shell particle technology, the sub-2 μm Aeris PEPTIDE column produces breakthrough chromatographic performance on UHPLC systems. Use Aeris PEPTIDE 1.7 μm columns to **boost the performance of sub-2 μm fully porous peptide mapping methods.**

Conditions for both columns:
Column: Aeris PEPTIDE 1.7 μm XB-C18
 ACQUITY® BEH™ 1.7 μm C18
Dimensions: 150 x 2.1 mm
Mobile Phase: A: Water with 0.1% TFA
 B: Acetonitrile with 0.08% TFA
Gradient: A/B (97:3) for 1.5 min to A/B (60:40) over 11 min to A/B (5:95) over 1 min
Flow Rate: 0.5 mL/min
Temperature: 40°C
Injection Volume: 5 μL
Instrument: Agilent® 1200SL
Detection: UV @ 214 nm (ambient)
Sample: Alpha-Casein Tryptic Digest



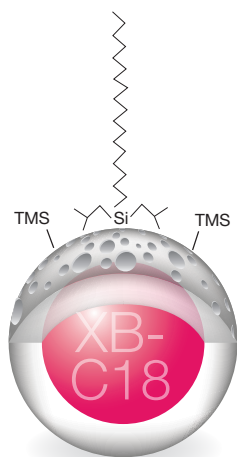
* Waters and ACQUITY are registered trademarks, and BEH Technology is a trademark of Waters Corporation. Phenomenex is not affiliated with Waters Corporation. Study was performed using new columns and, to the extent possible, identical experimental conditions were applied. Comparative separations may not be representative of all applications.

Utilize Long Columns to Maximize Resolution on HPLC and UHPLC Systems



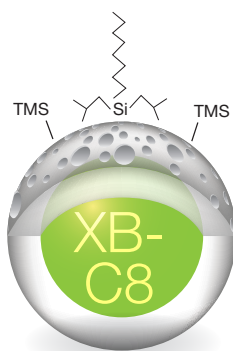
Easy Method Development with Three Selectivities

Aeris WIDEPORE 3.6µm Core-Shell Stationary Phases



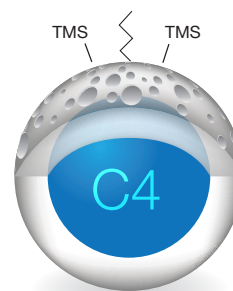
XB-C18
Maximum hydrophobicity
recommended for:

- Proteins
- Hydrophilic proteins
- PEGylated proteins
- High temperature separations
- Alternative selectivity for peptide mapping



XB-C8
Moderate hydrophobicity
recommended for:

- Large proteins
- Moderately hydrophobic proteins
- Monoclonal antibodies
- Glycosylated proteins
- High temperature separations



C4
Low hydrophobicity
recommended for:

- Very large proteins
- Very hydrophobic proteins
- Membrane proteins
- Least retentive

*Waters and ACQUITY are registered trademarks, and BEH Technology is a trademark of Waters Corporation. Phenomenex is not affiliated with Waters Corporation. Study was performed using new columns and, to the extent possible, identical experimental conditions were applied. Comparative separations may not be representative of all applications.

Ordering Information

Material Characteristics

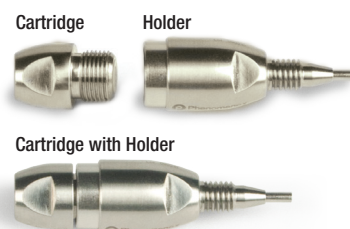
Packing Material	Total Particle Size (µm)	Porous Shell (µm)	Core Size (µm)	Pore Size (Å)	pH Stability	Temp Stability	Pressure Stability
Aeris WIDEPORE	3.6	0.2	3.2	200	1.5 - 9	90 °C	600 bar
Aeris PEPTIDE	1.7	0.22	1.25	100	1.5 - 9	90 °C	1000 bar
Aeris PEPTIDE	3.6	0.5	2.6	100	1.5 - 9	90 °C	600 bar



Order Online for Exclusive Savings!

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Aeris WIDEPORE 3.6 µm Minibore Columns (mm)					SecurityGuard™ ULTRA Cartridges*
Phases	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	3/pk
XB-C18	00B-4482-AN	00D-4482-AN	00F-4482-AN	00G-4482-AN	AJO-8783
XB-C8	00B-4481-AN	00D-4481-AN	00F-4481-AN	00G-4481-AN	AJO-8785
C4	00B-4486-AN	00D-4486-AN	00F-4486-AN	00G-4486-AN	AJO-8899



Aeris WIDEPORE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	100 x 4.6		150 x 4.6	250 x 4.6	3/pk
XB-C18	00D-4482-E0		00F-4482-E0	00G-4482-E0	AJO-8769
XB-C8	00D-4481-E0		00F-4481-E0	00G-4481-E0	AJO-8771
C4	00D-4486-E0		00F-4486-E0	00G-4486-E0	AJO-8901

Aeris PEPTIDE 1.7 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 2.1	100 x 2.1	150 x 2.1		3/pk
XB-C18	00B-4506-AN	00D-4506-AN	00F-4506-AN		AJO-8948



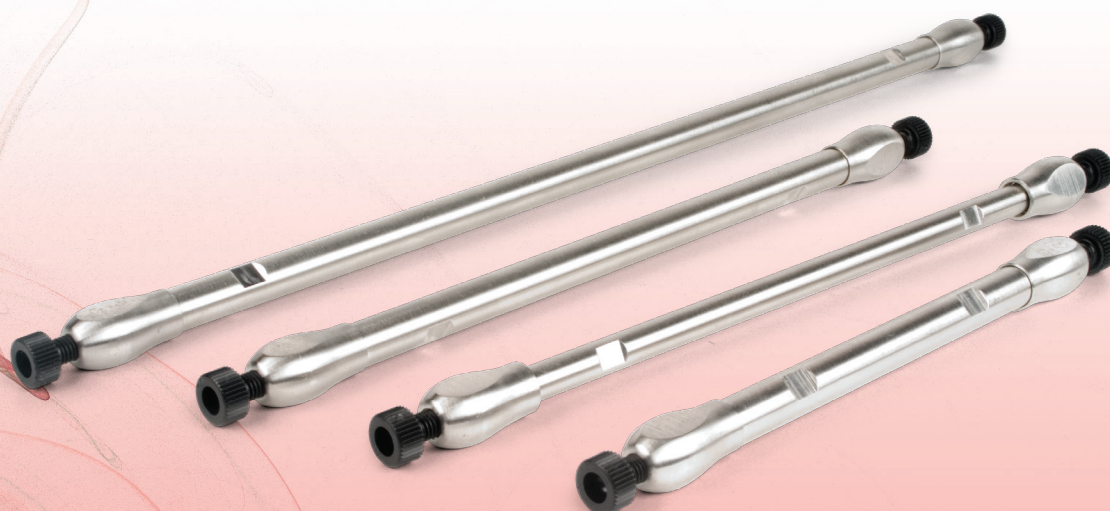
If you are not completely satisfied with your Aeris core-shell columns, return the column with comparative data within 45 days for a FULL REFUND.

Aeris PEPTIDE 3.6 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	3/pk
XB-C18	00B-4507-AN	00D-4507-AN	00F-4507-AN	00G-4507-AN	AJO-8948

Aeris PEPTIDE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	100 x 4.6		150 x 4.6	250 x 4.6	3/pk
XB-C18	00D-4507-E0		00F-4507-E0	00G-4507-E0	AJO-8946

SecurityGuard ULTRA Cartridge Holder* (for 2.1 to 4.6 mm ID columns)		
SecurityGuard ULTRA Guard Cartridge Holder	ea	Price
	AJO-9000	

* SecurityGuard ULTRA cartridges require holder part number AJO-9000.





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