Aeris™

guarantee

If you are not completely satisfied with Aeris core-shell columns, send in your comparative data to a similar product within 45 days and KEEP THE COLUMN FOR FREE.

Precision Engineered Core-Shell Particles for Ultra-High Resolution BioSeparations

Aeris is a specialized line of reversed phase core-shell UHPLC columns, built exclusively for the ultra-high performance separation and analysis of proteins and peptides.

Core-shell particle technology provides striking increases in peak capacity and resolution at lower backpressures, giving chromatographers the ability to use longer (or coupled) columns for BioSeparations. Additionally, optimizing the pore size and shell thickness for intact proteins or smaller peptide fragments leads to maximum separation power.

For more in-depth information about Aeris core-shell columns and to select the right column for your application, please visit p. 295

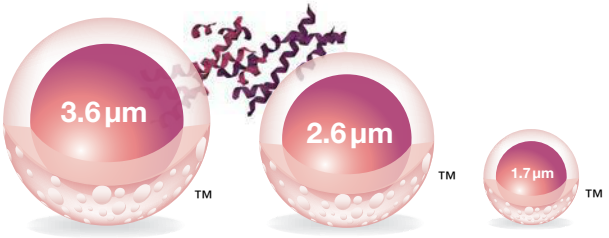
Aeris PEPTIDE Columns for Peptide and Peptide Mapping Separations

Aeris PEPTIDE particles are designed with small pores, inert XB-C18 surface chemistry, and three different particle sizes (3.6 µm, 2.6 µm, and 1.7 µm) to meet the resolution demands of chromatographers performing complex peptide and peptide map separations on HPLC and/or UHPLC systems.

Recommended for:

- **Synthetic peptide impurity analysis**
- **Peptide mapping**
- **Identifying protein modifications**
  Glycosylation, Substitution, and Truncation
- **Analyzing post-translational modifications**
  Deamidation, Oxidation, and Deletions

Aeris PEPTIDE



Small pore optimized for peptides and for peptide mapping

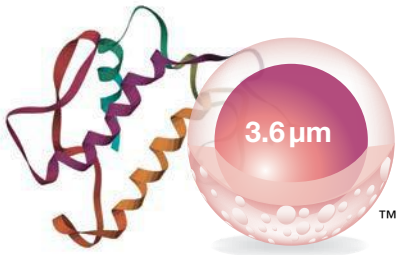
Aeris WIDEPORE Columns for Intact Protein and Polypeptide Separations

Aeris WIDEPORE columns are packed with 3.6 µm core-shell particles that are specially engineered with a thin porous shell, large pores, and sterically protected XB surface chemistry resulting in low backpressures, fast rates of diffusion, and excellent selectivity, generating exceptional chromatographic resolution on UHPLC systems.

Recommended for:

- **Protein structural characterization**
- **Stability indicating assays**
- **Post-translational modification identification**
- **PEGylated proteins, antibodies, biogenerics, etc.**
- **Impurity profiling**
- **Peptide mapping**

Aeris WIDEPORE



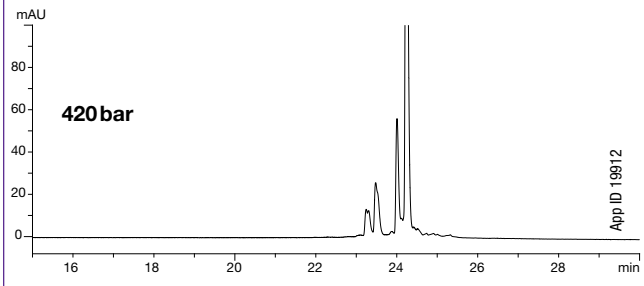
Large pore optimized for intact proteins and polypeptides

Maximize UHPLC Resolving Power with Unique 3.6 µm Core-Shell Particle

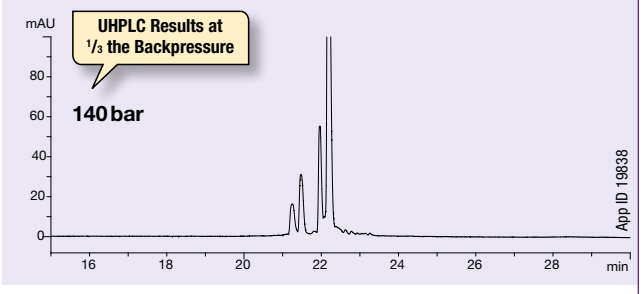
3.6 µm core-shell technology combined with inert surface chemistries and tight packing specifications results in Aeris WIDEPORE columns delivering exceptional resolving power at significantly lower backpressures. Chromatographers now have the ability to generate higher quality data than typically produced by columns packed with fully porous particles for every protein analysis.

Performance Equivalent to Sub-2 µm Particle at Low Backpressure

Waters® ACQUITY® BEH300 1.7 µm C18



Aeris WIDEPORE 3.6 µm XB-C18



Conditions for both columns:

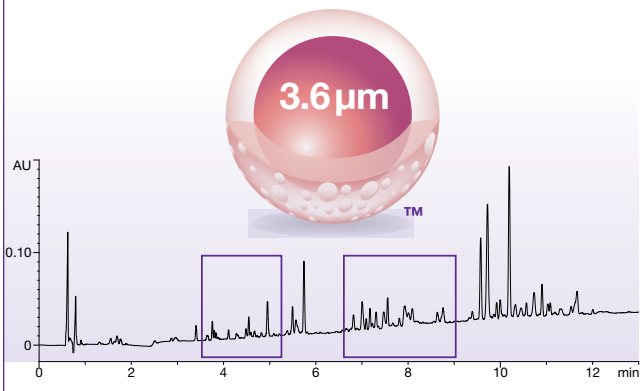
Column: ACQUITY® BEH300 1.7 µm C18
Aeris WIDEPORE 3.6 µm XB-C18
Dimensions: 150 x 2.1 mm
Mobile Phase: A: Water with 0.1 % TFA
B: Acetonitrile with 0.1 % TFA
Gradient: A/B (97:3) to A/B (35:65) over 45 min
Flow Rate: 0.3 mL/min
Temperature: 40 °C
Injection Volume: 10 µL
Instrument: Agilent® 1200
Detection: UV @ 214 nm (ambient)
Sample: Human Epidermal Growth Factor (EGF)

Increase Efficiency on UHPLC Systems with Sub-2 µm Core-Shell Particles

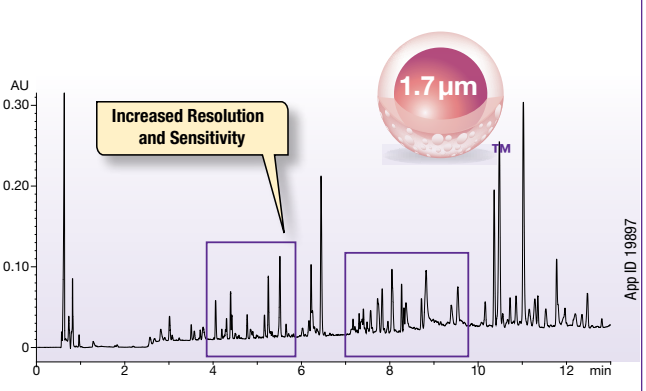
Aeris PEPTIDE 1.7 µm core-shell columns are an excellent solution for ultra-high resolution peptide and peptide mapping separations. Core-shell particle technology combined with a sub-2 µm particle size results in extremely high efficiencies that scientists can use to pull apart critical peaks.

Ultra-High Resolution Achieved with 1.7 µm Core-Shell Technology

Aeris PEPTIDE 3.6 µm XB-C18



Aeris PEPTIDE 1.7 µm XB-C18



Conditions for both columns:

Column: Aeris PEPTIDE 3.6 µm XB-C18
Aeris PEPTIDE 1.7 µm XB-C18
Dimensions: 150 x 2.1 mm
Part Nos.: 00F-4507-AN
00F-4506-AN
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) for 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.

Aeris™

guarantee

If you are not completely satisfied with Aeris core-shell columns, send in your comparative data to a similar product within 45 days and KEEP THE COLUMN FOR FREE.

Greater Method Flexibility with Specialty Surface Chemistries

Aeris WIDEPORE columns are available in three surface chemistries (XB-C18, XB-C8, C4) to satisfy applications of all types, ranging from sticky, intact proteins to complex protein digests.

Aeris PEPTIDE columns utilize the XB-C18 chemistry, as it is excellent for peptides and peptide mapping applications.

The unique, sterically protected XB surface ligands are designed by bonding bulky isobutyl chains aside the alkyl chains, and then fully endcapping the surface to cover any remaining exposed silanols.

Material Characteristics

Packing Material	Total Particle Size (µm)	Porous Shell (µm)	Core Size (µm)	pH Stability	Temp Stability	Pressure Stability
Aeris WIDEPORE	3.6	0.2	3.2	1.5 - 9	90 °C	600 bar
Aeris PEPTIDE	1.7	0.22	1.25	1.5 - 9	90 °C	1000 bar
Aeris PEPTIDE	2.6	0.35	1.9	1.5 - 9	90 °C	1000 bar
Aeris PEPTIDE	3.6	0.5	2.6	1.5 - 9	90 °C	600 bar

Ordering Information

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	AJ0-8948
				for 2.1 mm ID

Aeris PEPTIDE 2.6 µm Minibore Columns (mm)			SecurityGuard ULTRA Cartridges*
Phases	150 x 2.1	250 x 2.1	3/pk
XB-C18	00F-4505-AN	00G-4505-AN	AJ0-8948
			for 2.1 mm ID

Aeris PEPTIDE 2.6 µm Analytical Columns (mm)			SecurityGuard ULTRA Cartridges*
Phases	150 x 4.6	250 x 4.6	3/pk
XB-C18	00F-4505-E0	00G-4505-E0	AJ0-8946
			for 4.6 mm ID

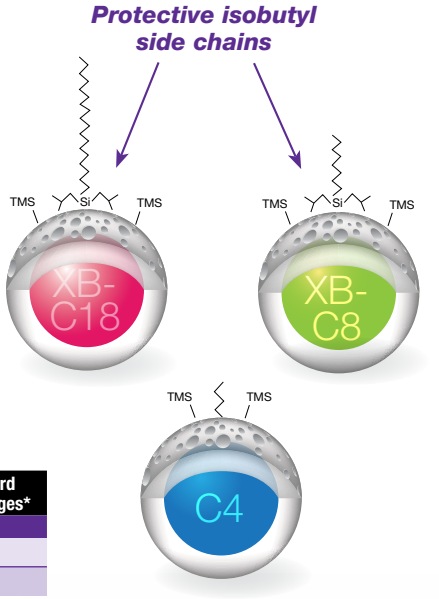
Aeris PEPTIDE 3.6 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	3/pk
XB-C18	00B-4507-AN	00D-4507-AN	00F-4507-AN	00G-4507-AN	AJ0-8948
					for 2.1 mm ID

Aeris PEPTIDE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
XB-C18	00B-4507-E0	00D-4507-E0	00F-4507-E0	00G-4507-E0	AJ0-8946
					for 4.6 mm ID

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	AJ0-8783
XB-C8	00B-4481-AN	00D-4481-AN	00F-4481-AN	00G-4481-AN	AJ0-8785
C4	00B-4486-AN	00D-4486-AN	00F-4486-AN	00G-4486-AN	AJ0-8899
					for 2.1 mm ID

Aeris WIDEPORE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
XB-C18	00B-4482-E0	00D-4482-E0	00F-4482-E0	00G-4482-E0	AJ0-8769
XB-C8	00B-4481-E0	00D-4481-E0	00F-4481-E0	00G-4481-E0	AJ0-8771
C4	00B-4486-E0	00D-4486-E0	00F-4486-E0	00G-4486-E0	AJ0-8901
					for 4.6 mm ID

*SecurityGuard ULTRA cartridges require holder part number, AJ0-9000



SecurityGuard ULTRA Holder with cartridge

Cartridge Holder

SecurityGuard™ ULTRA Cartridge Holder* (for 2.1 to 4.6 mm ID columns)

SecurityGuard ULTRA Guard Cartridge Holder	ea	Price
	AJ0-9000	

For more about SecurityGuard ULTRA, see p. 255.
For Core-Shell Performance Enhancement Kit, see p. 369

If you are not completely satisfied with Aeris core-shell columns, send in your comparative data to a similar product within 45 days and KEEP THE COLUMN FOR FREE.

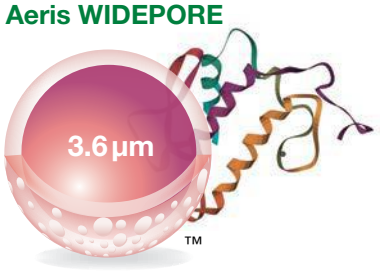
Core-Shell HPLC / UHPLC Columns for Proteins and Peptides

Ultra-High Resolution and Performance

Introducing Aeris, a specialized line of reversed phase core-shell HPLC / UHPLC columns, built exclusively for the ultra-high performance separation and analysis of proteins and peptides.

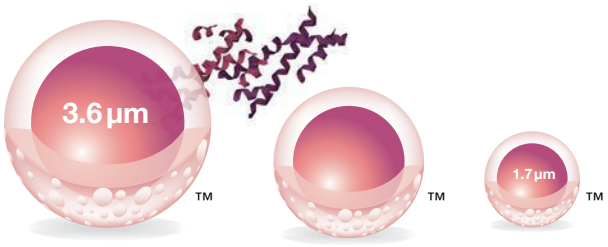
These columns can provide improved resolving power, selectivity, throughput, sensitivity, column lifetime, and method flexibility compared to other fully porous and core-shell columns typically used for bioseparations.

Aeris WIDEPORE



Large pore optimized for intact proteins and polypeptides

Aeris PEPTIDE



Small pore optimized for peptides and for peptide mapping

The precise architecture of Aeris core-shell particles provides dramatic leaps in performance in two important ways:

1. The thin, porous layer, or "shell", decreases the diffusion path length, thus reducing the time it takes for biomolecules to adsorb/desorb into and out of the particle.

2. Expert manufacturing combined with tight packing specifications and high particle density reduces losses in efficiency and performance due to band broadening.

Aeris Core-Shell Particle

- **High particle density helps create optimal bed structure which reduces band broadening effects of Eddy Diffusion**
- **Ultra-high performance on HPLC and UHPLC systems alike**
- **Reduced diffusion path improves efficiency**

Fully Porous Particle

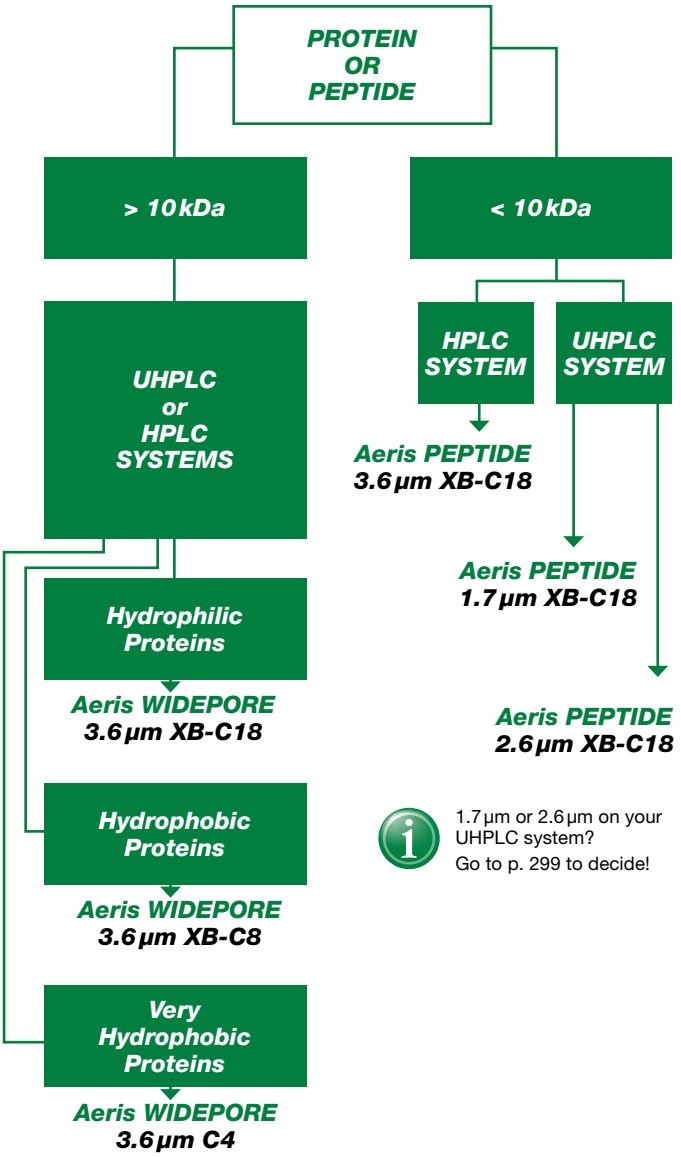
- **Less homogenuous bed structure leads to performance loss**
- **Ultra-high performance limited to sub-2 µm particles on UHPLC systems**
- **Diffusion path limits efficiencies**

The result is:

- **3.6 µm core-shell particles that can perform like sub–2 µm columns on both HPLC and UHPLC systems at a fraction of the pressure**
- **1.7 µm and 2.6 µm core-shell particles that can provide higher peak capacities compared to fully porous sub–2 µm columns on UHPLC systems**

Selecting the Optimal Aeris Column for Your Applications

Aeris core-shell columns are designed for the separation of complex protein and peptide mixtures. Chromatographers can easily narrow down the column(s) that has a high probability of success for their separation by selecting from a variety of phase, pore size, and particle size options.



Aeris PEPTIDE

Recommended for the separation of low molecular weight peptides and for peptide mapping.

- **XB-C18 chemistry best suited for resolving peptides**
- **1.7µm, 2.6µm, and 3.6µm particles for method development flexibility between HPLC and UHPLC systems**
- **Small pore optimized for peptide diffusion**

For increased resolving power, use a longer column, preferably a 250mm (or 150mm for the Aeris 1.7µm XB-C18). Due to the lower backpressure of Aeris 3.6µm, one can easily run 250mm columns on both HPLC and UHPLC systems, AND one can couple multiple 250mm columns together and run them inline for even better results. For maximum UHPLC resolution, the 150mm length Aeris 1.7µm or 250mm length Aeris 2.6µm columns, are excellent choices.

Aeris WIDEPORE

Recommended for the separation of intact proteins and polypeptides.

- **XB-C18, XB-C8, and C4 phases for alternate selectivities**
- **3.6µm particle for system flexibility**
- **Large pore optimized for fast protein adsorption/ desorption**

Because of the reduced hydrophobicity compared to fully porous 300Å columns, one should start gradients with reduced organic concentrations compared to other columns to improve peak shape of polar proteins and peptides. Shallower gradients compared to other fully porous columns may be appropriate.

1.7µm or 2.6µm on your UHPLC system?
Go to p. 299 to decide!

Material Characteristics

Packing Material	Total Particle Size (µm)	Porous Shell (µm)	Core Size (µm)	pH Stability	Temp Stability	Pressure Stability
Aeris WIDEPORE	3.6	0.2	3.2	1.5 - 9	90 °C	600 bar
Aeris PEPTIDE	1.7	0.22	1.25	1.5 - 9	90 °C	1000 bar
Aeris PEPTIDE	2.6	0.35	1.9	1.5 - 9	90 °C	1000 bar
Aeris PEPTIDE	3.6	0.5	2.6	1.5 - 9	90 °C	600 bar

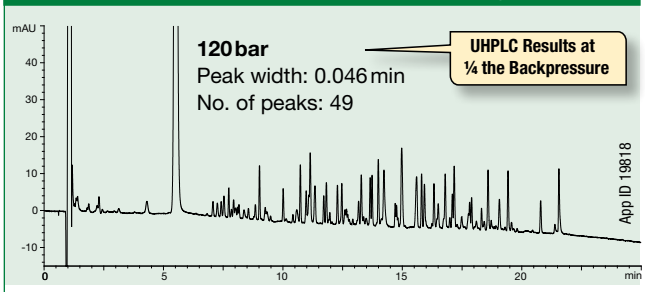
Aeris WIDEPORE XB-C18 and Aeris PEPTIDE XB-C18 make a perfect pair for peptide mapping. See p. 299 for more details.

Improve Resolution on ANY System by Leveraging Low Backpressure

Aeris PEPTIDE and Aeris WIDEPORE 3.6 µm columns can perform like sub-2 µm columns at a fraction of the backpressure. This allows chromatographers to utilize the resolving power of longer length (or coupled) columns without exceeding the pressure limits of their HPLC system. Scientists analyzing proteins and peptides can now have ultra-high resolution on HPLC or UHPLC systems.

Sub-2 µm Performance at a Fraction of the Backpressure

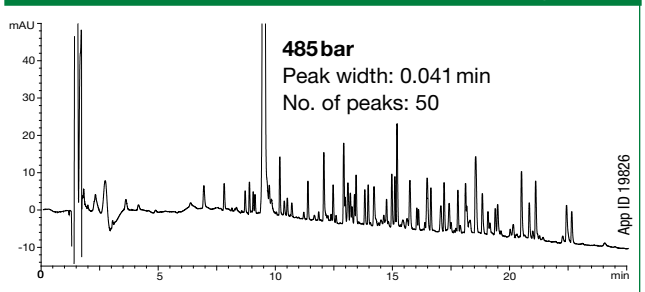
Aeris WIDEPORE 3.6 µm XB-C18



Conditions for both columns:

Column: Aeris WIDEPORE 3.6 µm XB-C18
ACQUITY® BEH™ 300 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 (65:35) for 3 min to A/B (35:65) over 30 min

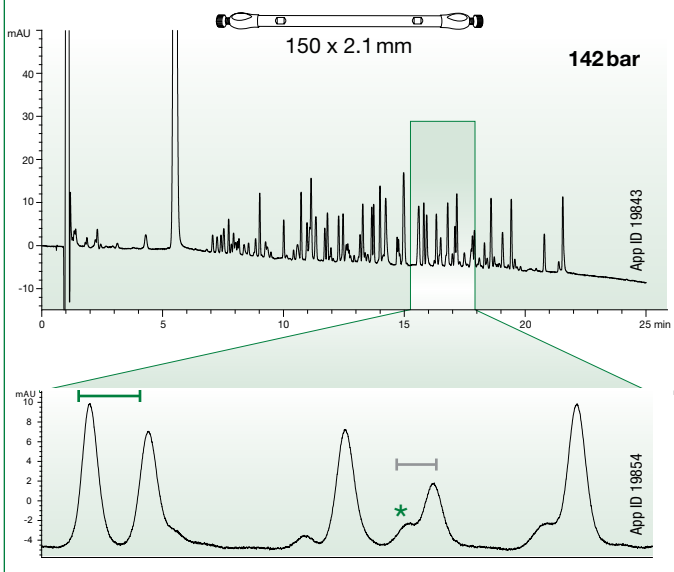
Waters® ACQUITY® BEH300 1.7 µm C18



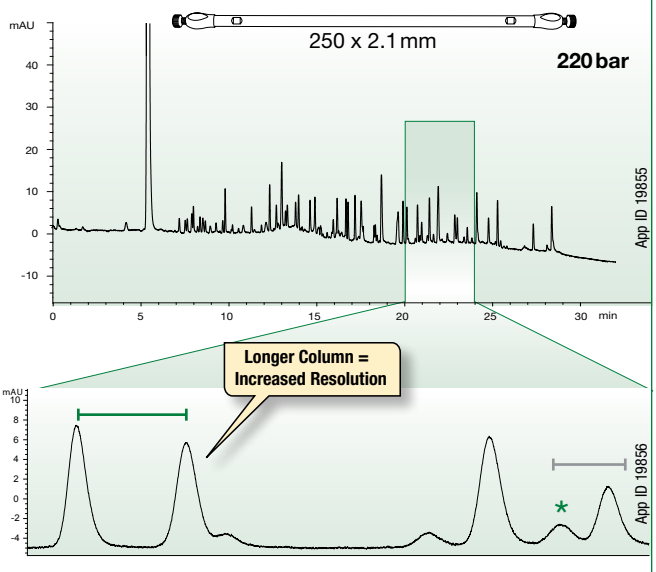
Flow Rate: 0.3 mL/min
Temperature: 40 °C
Injection Volume: 20 µL
Instrument: Agilent® 1200
Detection: UV @ 214 nm (ambient)
Sample: BSA (Bovine Serum Albumin) Tryptic Digest

Increase Column Length to Improve Resolving Power

Aeris WIDEPORE 3.6 µm XB-C18



Aeris WIDEPORE 3.6 µm XB-C18



Conditions for both columns:

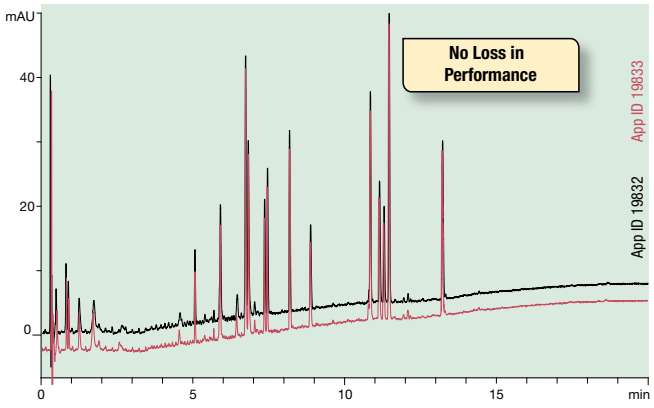
Column: Aeris WIDEPORE 3.6 µm XB-C18
Dimensions: as noted
Mobile Phase: A: Water with 0.1 % TFA
B: Acetonitrile with 0.1 % TFA
Gradient: A/B (97:3) for 3 min to A/B (35:65) over 30 min
Flow Rate: 0.3 mL/min
Temperature: 40 °C
Injection Volume: 25 µL
Instrument: Agilent® 1200
Detection: UV @ 214 nm (ambient)
Sample: BSA (Bovine Serum Albumin) Tryptic Digest

Aeris™

Long Column Lifetimes Under Extreme Method Conditions

Aeris columns provide temperature stability up to 90 °C, and pH stability from 1.5 - 9, giving ample flexibility for method development and excellent column lifetime.

Over 1,000 Injections at 90 °C



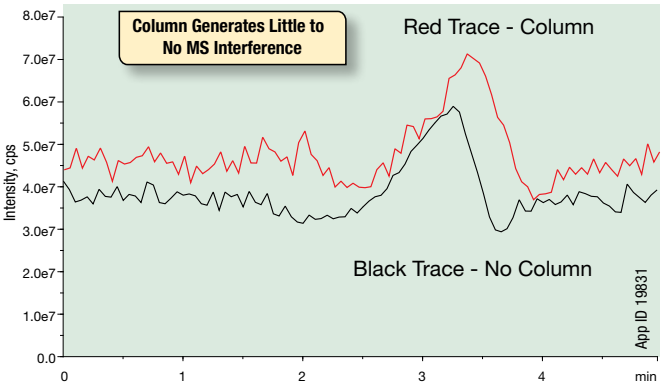
Column: Aeris WIDEPORE 3.6 µm XB-C18
Dimensions: 50 x 4.6 mm
Part No.: 00B-4282-E0
Mobile Phase: A: Water with 0.1 % TFA
B: Acetonitrile with 0.1 % TFA
Gradient: A/B (97:3) for 3 min, then to A/B (35:65) over 20 min

Flow Rate: 1.5 mL/min
Temperature: 90 °C
Injection Volume: 10 µL
Detection: UV @ 214 nm (ambient)
Sample: Apomyoglobin Digest

Low Column Bleed for Amplified Mass Spec (MS) Sensitivity

Aeris columns show no significant phase bleed under LC/MS conditions, making them very suitable for protein and peptide analysis. Chemists can be assured accurate, dependable, and consistent results, time and time again.

Virtually no LC/MS Bleed



Column: Aeris WIDEPORE 3.6 µm XB-C18
Dimensions: 50 x 2.1 mm
Part No.: 00B-4282-AN
Mobile Phase: A: Water with 0.1 % Formic Acid
B: Acetonitrile with 0.1 % Formic Acid
Gradient: A/B (95:5) for 2.5 min, to A/B (5:95) hold for 0.5 min, then re-equilibrate

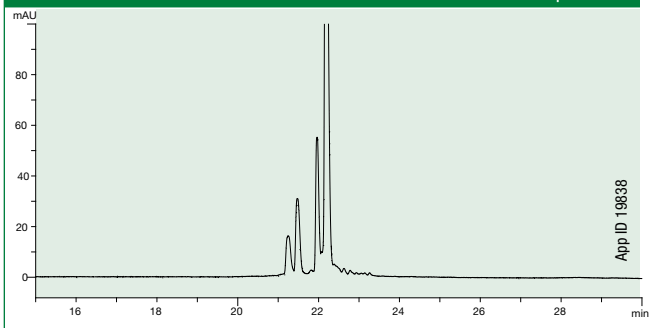
Flow Rate: 0.5 mL/min
Temperature: 25 °C
Detection: MS (API 4000™) Positive Ion Mode Q1 scan from 75 to 800 amu
Sample: Blank

Minimize Adsorption and Maximize Recoveries for Accurate Results

Aeris phase chemistries and bonding technology create a highly inert surface, leading to greatly reduced irreversible adsorption, higher recoveries, and sharper, narrower peaks, providing high quality and accurate results for each consecutive analysis.

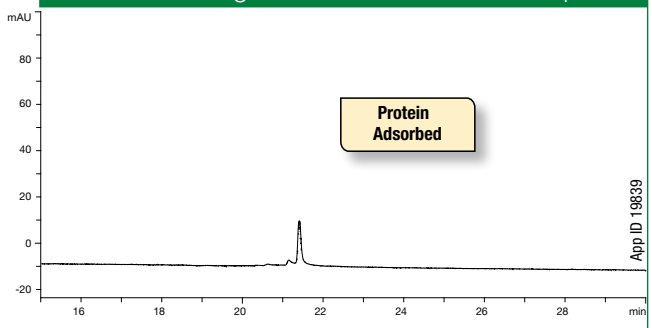
Maximize Recoveries of Hydrophobic Proteins

Aeris WIDEPORE 3.6 µm C4



Conditions for both columns:
Column: Aeris WIDEPORE 3.6 µm C4
ZORBAX® 300SB 3.5 µm C3
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) to A/B (35:65) over 45 min

Agilent® ZORBAX® 300SB 3.5 µm C3



Flow Rate: 0.3 mL/min
Temperature: 40 °C
Injection Volume: 20 µL
Instrument: Agilent® 1200
Detection: UV @ 214 nm (ambient)
Sample: Human Epidermal Growth Factor

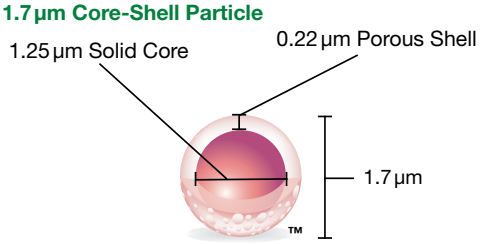
Aeris PEPTIDE Columns for Peptide and Peptide Mapping Separations

Based on core-shell particle technology, Aeris PEPTIDE particles are designed with small pores, inert XB-C18 surface chemistry, and three different particle sizes (3.6 µm, 2.6 µm, and 1.7 µm) to meet the resolution demands of chromatographers performing complex peptide and peptide map separations on HPLC and/or UHPLC systems.

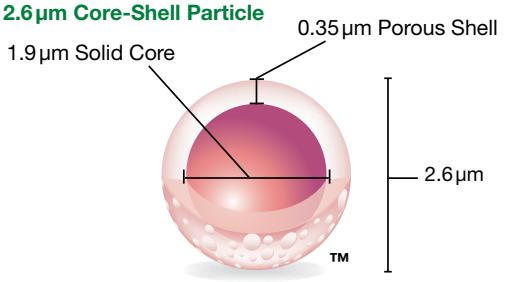
Aeris PEPTIDE columns are built for the following:

- **Synthetic peptide impurity analysis**
- **Peptide mapping**
- **Identifying protein modifications**
  Glycosylation, Substitution, and Truncation
- **Analyzing post-translational modifications**
  Deamidation, Oxidation, and Deletions

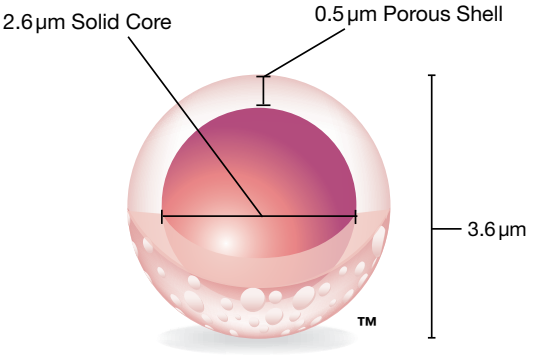
1.7 µm Core-Shell Particle



2.6 µm Core-Shell Particle

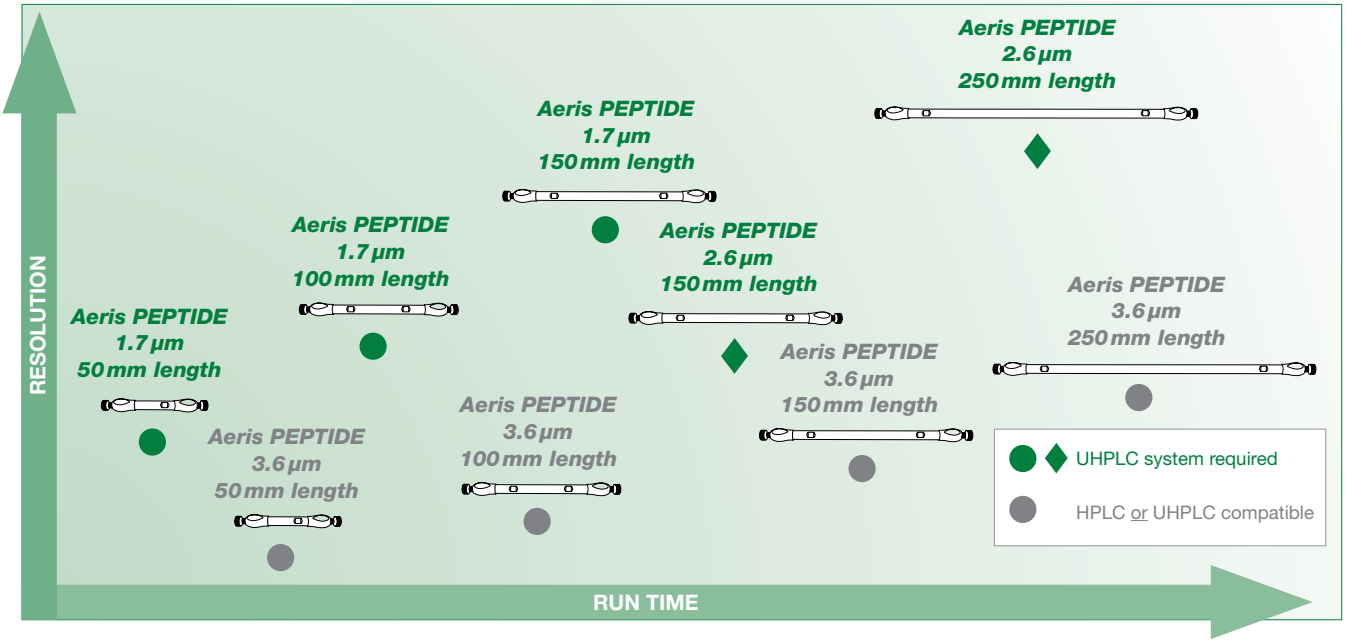


3.6 µm Core-Shell Particle



Select the Most Suitable Aeris PEPTIDE Column to Achieve Your Separation Goals

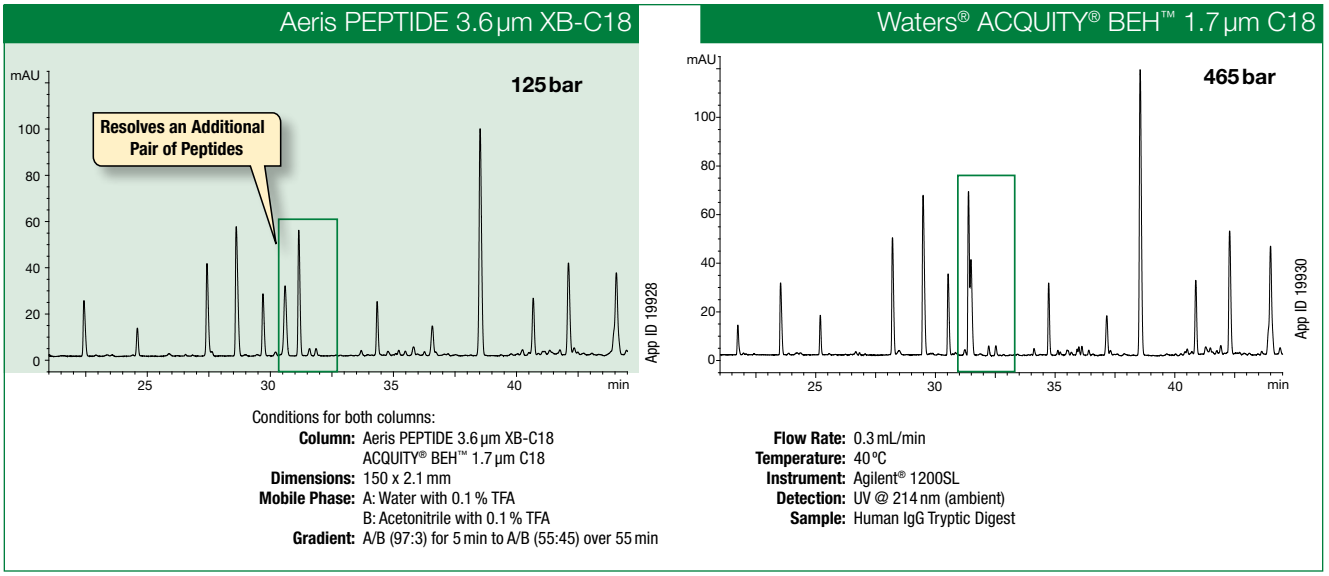
The family of Aeris PEPTIDE XB-C18 columns is designed to provide versatility for the development of peptide separation methods. Depending on your resolution, throughput goals, and pressure capabilities of your system, you can choose from three particle sizes with unique performance attributes, as well as several column lengths to select the most suitable column for seamless method development and excellent results.



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.

UHPLC Performance at HPLC Compatible Backpressures

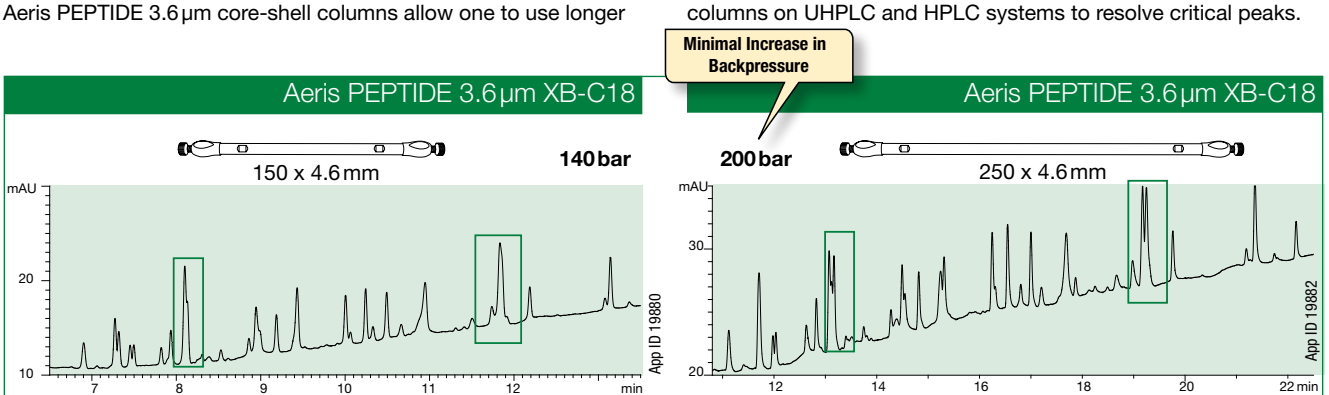


Conditions for both columns:
Column: Aeris PEPTIDE 3.6 µm XB-C18
ACQUITY® BEH™ 1.7 µm C18
Dimensions: 150 x 2.1 mm
Mobile Phase: A: Water with 0.1 % TFA
B: Acetonitrile with 0.1 % TFA
Gradient: A/B (97:3) for 5 min to A/B (55:45) over 55 min

Flow Rate: 0.3 mL/min
Temperature: 40 °C
Instrument: Agilent® 1200SL
Detection: UV @ 214 nm (ambient)
Sample: Human IgG Tryptic Digest

Utilize Long Columns to Maximize Separation Power

For applications like peptide separations and peptide mapping where resolution is the primary goal, the lower backpressure of Aeris PEPTIDE 3.6 µm core-shell columns allow one to use longer columns for higher resolving power resulting in increased separation of closely eluting peptides. Use longer (or coupled) 3.6 µm columns on UHPLC and HPLC systems to resolve critical peaks.



Conditions for both columns:
Column: Aeris PEPTIDE 3.6 µm XB-C18
Dimensions: as noted
Mobile Phase: A: Water with 0.1 % Formic Acid
B: Acetonitrile with 0.1 % Formic Acid
Gradient: A/B (97:3) for 3 min to A/B (35:65) over 30 min
Flow Rate: 1.2 mL/min

Temperature: 40 °C
Injection Volume: 25 µL
Instrument: Agilent® 1200
Detection: UV @ 214 nm (ambient)
Sample: Bovine Serum Albumin (BSA) Tryptic Digest

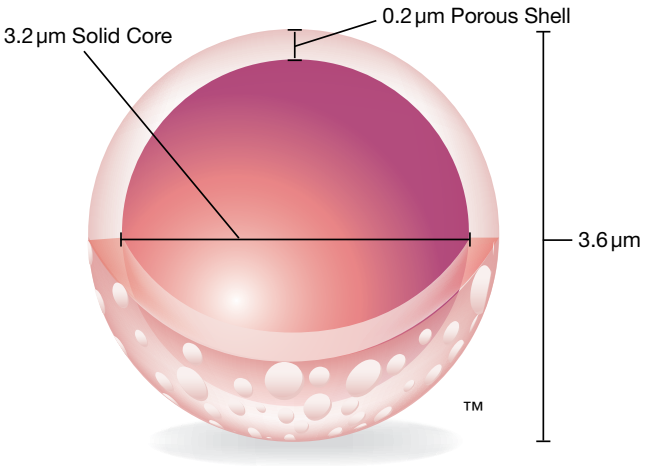
Aeris WIDEPORE Columns for Intact Protein and Polypeptide Separations

Aeris WIDEPORE columns are packed with 3.6 µm core-shell particles that are specially engineered with a thin porous shell, large pores, and sterically protected XB surface chemistry to address the inherent separation challenges of proteins and peptides. This unique mix of features results in low backpressures, fast rates of diffusion, and excellent selectivity, generating exceptional chromatographic resolution on both HPLC and UHPLC systems.

Recommended for:

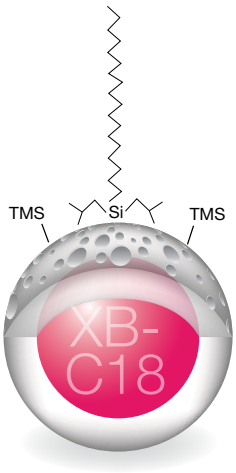
- **Protein structural characterization**
- **Stability indicating assays**
- **Post-translational modification identification**
- **PEGylated proteins, antibodies, biogenerics, etc.**
- **Impurity profiling**
- **Peptide mapping**

3.6 µm Core-Shell Particle



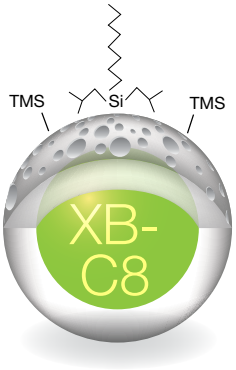
Easy Method Development with Three Selectivities

Aeris WIDEPORE 3.6 µm Core-Shell Stationary Phases



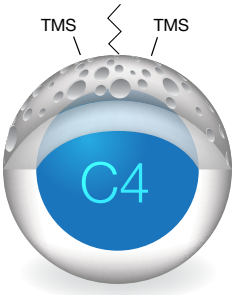
XB-C18
Maximum hydrophobicity
recommended for:

- **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:

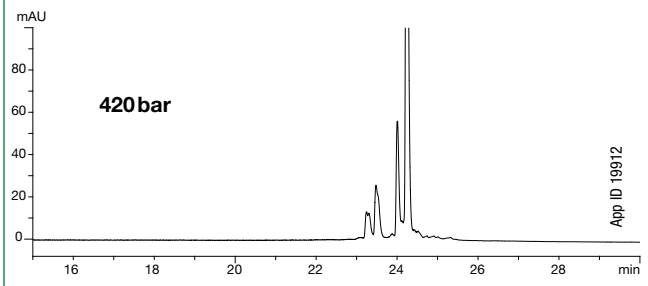
- **Very large proteins**
- **Very hydrophobic proteins**
- **Membrane proteins**
- **Least retentive**

Maximize HPLC and UHPLC Resolving Power with Unique 3.6 µm Core-Shell Particle

3.6 µm core-shell technology combined with inert surface chemistries and tight packing specifications results in Aeris WIDEPORE columns delivering exceptional resolving power at significantly lower backpressures. Chromatographers now have the ability to generate higher quality data than typically produced by columns packed with fully porous particles for every protein analysis – on HPLC or UHPLC systems.

Performance Equivalent to Sub-2 µm Particle at Low Backpressure

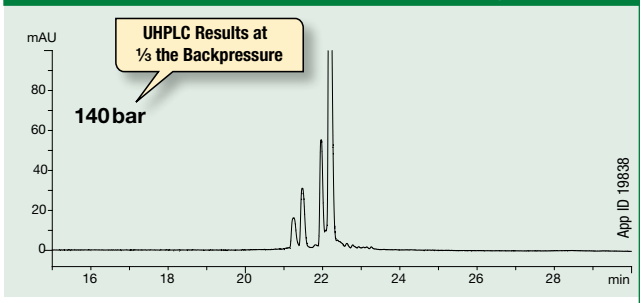
Waters® ACQUITY® BEH300 1.7 µm C18



Conditions for both columns:

Column: ACQUITY® BEH300 1.7 µm C18
Aeris WIDEPORE 3.6 µm XB-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) to A/B (35:65) over 45 min

Aeris WIDEPORE 3.6 µm XB-C18



Flow Rate: 0.3 mL/min
Temperature: 40 °C
Injection Volume: 10 µL
Instrument: Agilent® 1200
Detection: UV @ 214 nm (ambient)
Sample: Human Epidermal Growth Factor (EGF)

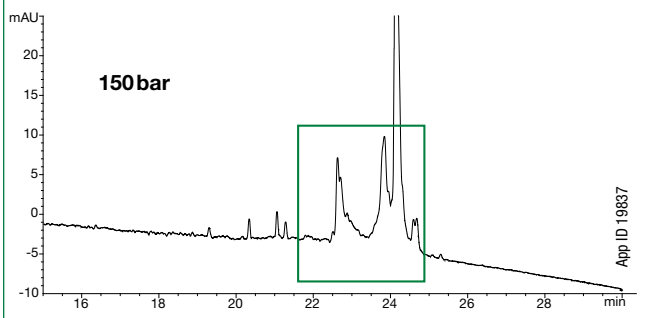
Achieve UHPLC Performance on HPLC Systems by Replacing 3 µm and 5 µm Columns

The innovative structure of 3.6 µm Aeris core-shell particles was specially designed to provide sub-2 µm performance at backpressures similar to fully porous 3 µm and 5 µm particles. Aeris columns can deliver increased resolution for existing protein and peptide separations performed on fully porous 3 µm and 5 µm columns, using the same HPLC system!

Now you can have UHPLC performance on your HPLC system and experience better performance and method flexibility than ever before.

Upgrade Existing Methods on 3 µm and 5 µm Fully Porous Columns to Aeris Core-Shell Technology

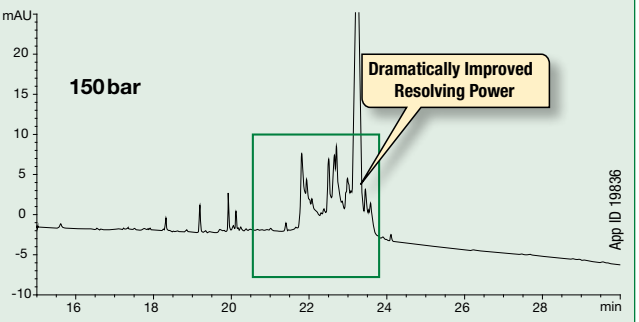
Agilent® ZORBAX® 300SB 3.5 µm C18



Conditions for both columns:

Column: Aeris WIDEPORE 3.6 µm XB-C18
ZORBAX® 300SB 3.5 µm C18
Dimensions: 150 x 4.6 mm
Mobile Phase: A: Water with 0.1 % TFA
B: Acetonitrile with 0.1 % TFA
Gradient: A/B (97:3) for 3 min to A/B (35:65) over 30 min

Aeris WIDEPORE 3.6 µm XB-C18



Flow Rate: 1.5 mL/min
Temperature: 40 °C
Injection Volume: 20 µL
Instrument: Agilent® 1200SL
Detection: UV @ 210 nm (ambient)
Sample: Degraded Myoglobin

Agilent and ZORBAX are registered trademarks of Agilent Technologies, Inc. Phenomenex is not affiliated with Waters Corporation nor Agilent Technologies, Inc. Studies were performed using new columns and, to the extent possible, identical experimental conditions were applied. Comparative separations may not be representative of all applications.

Aeris™

guarantee

If you are not completely satisfied with Aeris core-shell columns, send in your comparative data to a similar product within 45 days and KEEP THE COLUMN FOR FREE.

Ordering Information

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	AJ0-8948

Aeris PEPTIDE 2.6 µm Minibore Columns (mm)			SecurityGuard™ ULTRA Cartridges*
Phases	150 x 2.1	250 x 2.1	3/pk
XB-C18	00F-4505-AN	00G-4505-AN	AJ0-8948

Aeris PEPTIDE 2.6 µm Analytical Columns (mm)			SecurityGuard ULTRA Cartridges*
Phases	150 x 4.6	250 x 4.6	3/pk
XB-C18	00F-4505-E0	00G-4505-E0	AJ0-8946

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	AJ0-8948

Aeris PEPTIDE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
XB-C18	00B-4507-E0	00D-4507-E0	00F-4507-E0	00G-4507-E0	AJ0-8946

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	AJ0-8783
XB-C8	00B-4481-AN	00D-4481-AN	00F-4481-AN	00G-4481-AN	AJ0-8785
C4	00B-4486-AN	00D-4486-AN	00F-4486-AN	00G-4486-AN	AJ0-8899

Aeris WIDEPORE 3.6 µm Analytical Columns (mm)					SecurityGuard ULTRA Cartridges*
Phases	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
XB-C18	00B-4482-E0	00D-4482-E0	00F-4482-E0	00G-4482-E0	AJ0-8769
XB-C8	00B-4481-E0	00D-4481-E0	00F-4481-E0	00G-4481-E0	AJ0-8771
C4	00B-4486-E0	00D-4486-E0	00F-4486-E0	00G-4486-E0	AJ0-8901

*SecurityGuard ULTRA cartridges require holder part number. AJ0-9000

SecurityGuard ULTRA Cartridge Holder* (for 2.1 to 4.6 mm ID columns)		
SecurityGuard ULTRA Guard Cartridge Holder	ea	Price
	AJ0-9000	

For more about SecurityGuard ULTRA, see p. 255
For Core-Shell Performance Enhancement Kit, see p. 370

For HPLC Column Performance Check Standards, see pp. 372-373