Agilent

Trusted Answers

Reach New Heights in Performnace

Agilent Altura HPLC columns with Ultra Inert technology

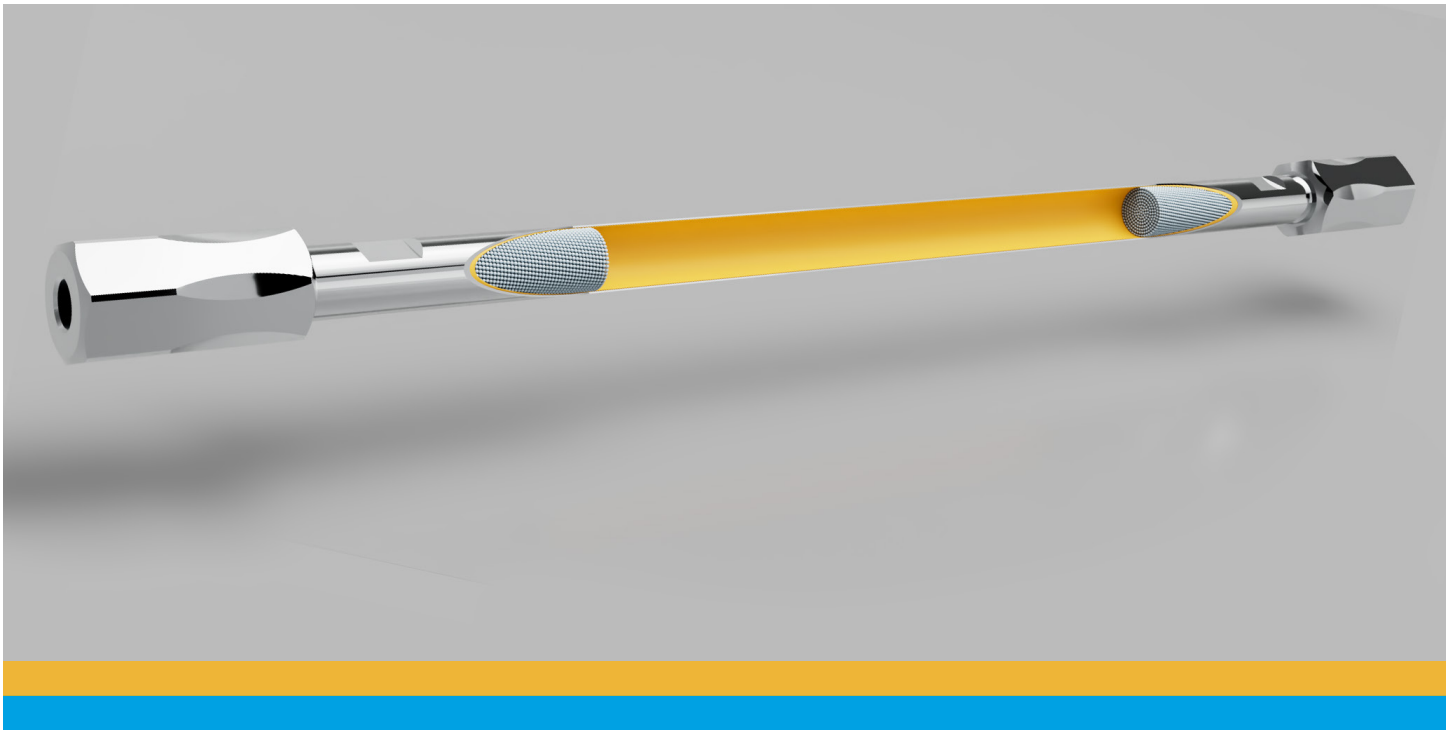
Unlock the true potential of HPLC with Ultra Inert technology

Experience the difference with Agilent Altura HPLC columns. Our Ultra Inert technology sets a new standard in liquid chromatographic performance, providing the reliability and efficiency you need for your most demanding applications. Choose Altura columns and elevate your analytical results to new heights.

Meet the Altura family of HPLC columns

Altura columns feature our innovative Ultra Inert technology. This advanced coating blocks active metal sites, ensuring an inert flow path while maintaining the strength, pressure tolerance, and consistency of a traditional stainless steel HPLC column.

The result? Altura columns unlock the true separation potential of the stationary phase. Experience superior chromatographic performance, faster equilibration, reduced carryover, and enhanced sensitivity for your most challenging metal-sensitive analytes.



Elevate your separations: From complex biomolecules to challenging PFAS, Altura delivers cleaner peaks, higher recovery, and more reliable results

Enhance your separations with Ultra Inert technology

Ultra Inert technology, featured in Altura HPLC columns, minimizes nonspecific interactions and metal adsorption to enhance the accuracy and reproducibility of analytical measurements. Delivering exceptional inertness across the entire sample path, Agilent inert LCs and Altura HPLC columns together ensure reliable results even with highly active or trace-level compounds. Backed by over a decade of expertise, innovation, and trusted performance, Ultra Inert components from Agilent have helped laboratories worldwide achieve lower detection limits, greater sensitivity, and more consistent data quality across a broad range of analytical applications.

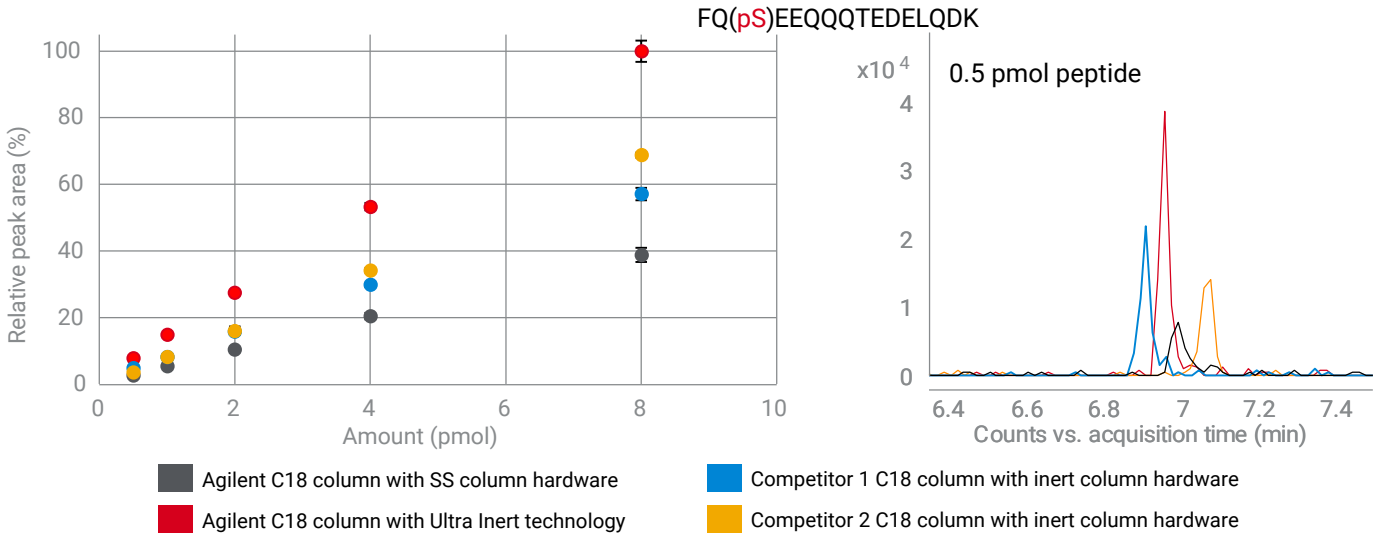
Altura HPLC columns with Ultra Inert technology offer:

- **Reduced nonspecific binding** for pure selectivity
- **Better peak shape** with less tailing
- **Enhanced sensitivity** due to improved sample recovery
- **Long lifetime** due to robust coating and column packing
- **Rapid equilibration** to get high-quality data faster
- **Versatile use** with various chromatographic techniques
- **Readiness for evolving regulatory needs** with lower limits of detection

Get more confident results for your most demanding bio applications

Altura columns extend the power of Ultra Inert technology into the demanding world of biomolecule analysis, where even minor metal interactions can impact data quality. Altura BioHPLC columns preserve the native behavior of peptides, oligos, metabolites, PTMs, and other metal-sensitive analytes—reducing adsorption, improving recovery, and maintaining integrity across your workflow.

By mitigating the metal sensitivity common to proteins, peptides, and oligonucleotides, Altura delivers cleaner peak shapes, higher recovery, and lower detection limits—enabling more complete characterization and sensitive quantitation of low-level biotherapeutic impurities.



Altura HPLC columns deliver superior peak shape and signal response in reversed-phase phosphopeptide separations, consistently outperforming other columns with higher sensitivity and signal-to-noise for this metal-sensitive compound.

Altura columns with Ultra Inert technology deliver:

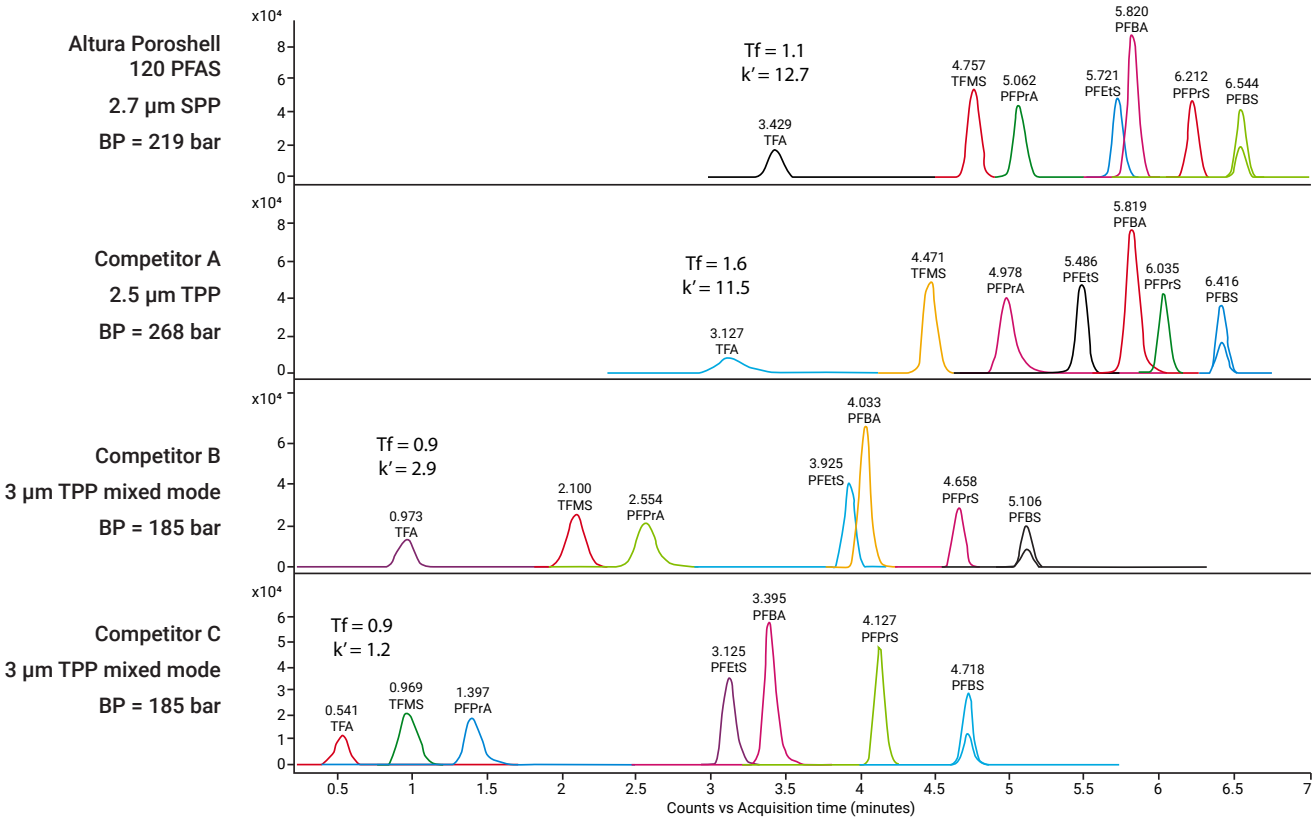
- **Up to 6.5× higher** sensitivity than SS columns
- **Up to 2× higher** sensitivity versus Competitor 1
- **Up to 3× higher** signal-to-noise ratio than Competitor 1
- **Up to 10×** higher signal-to-noise ratio versus SS

See how Altura BioHPLC columns can improve your bioanalytical workflow.
Brochure 5994-8687EN

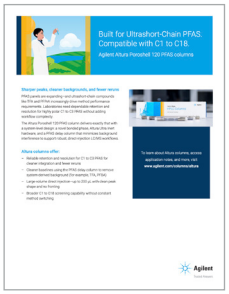
Analyze ultrashort-chain PFAS with proven accuracy

Altura Poroshell 120 PFAS columns are engineered to meet the growing challenges of PFAS testing, delivering dependable retention, resolution, and sensitivity for ultrashort-chain compounds—including TFA, PFPrA, and other highly polar C1 to C3 analytes. Built with a novel mixed-mode C18 phase and supported by Altura Ultra Inert hardware, these columns reduce adsorption, sharpen early eluting peaks, and provide the robust performance needed for direct injection LC/MS workflows.

Paired with the dedicated PFAS delay column, Altura workflows effectively remove background interference from system-derived PFAS—supporting cleaner baselines, clearer peak identification, and more confident low-level reporting.



Altura Poroshell 120 PFAS columns provide up to 5× longer retention for C1 to C3 PFAS compared to a leading competitor, giving more room for method optimization and more reliable separations in real-world matrices.



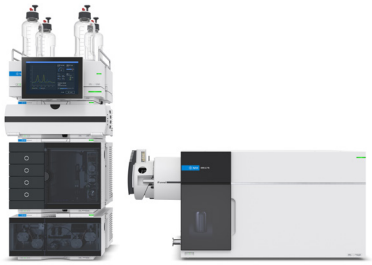
Learn how Alutra Poroshell 120 PFAS columns can upgrade your PFAS workflow.
Flyer 5994-8941EN

Ordering information

Altura Poroshell 120 PFAS columns

Mixed-mode C18 phase designed for ultrashort-chain PFAS analysis

Part Number	Description
227205-007	Altura Poroshell 120 PFAS column, 2.7 µm, 2.1 × 50 mm
227210-007	Altura Poroshell 120 PFAS column, 2.7 µm, 2.1 × 100 mm
227215-007	Altura Poroshell 120 PFAS column, 2.7 µm, 2.1 × 150 mm
027403-007	Poroshell 120 PFAS delay column, 2.7 µm, 4.6 × 30 mm



Precision for every PFAS challenge

Boost your PFAS performance with the **Agilent InfinityLab PFAS analysis HPLC conversion kit** and its easy, screw-on **Agilent InfinityLab bio solvent inlet filter**. Achieve cleaner workflows and results you can trust—every run.

Successful PFAS analysis begins with uncompromised sample preparation

The comprehensive portfolio of sample preparation solutions from Agilent is designed to equip your lab for success across various PFAS testing workflows, including drinking water, wastewater, soil/solid waste, and beyond. Offering cost-effective solutions to meet various regulatory requirements, Agilent provides you confidence with each analysis.

Explore our latest innovations and resources and start optimizing your PFAS testing workflow today.

Altura Eclipse Plus C18

Double-endcapped C18 sub-2-µm reversed-phase column for high-resolution separations, such as complex peptide mapping analyses

Part Number	Description
204205-308	Altura Eclipse Plus C18, 1.8 µm, 2.1 × 50 mm
204210-308	Altura Eclipse Plus C18, 1.8 µm, 2.1 × 100 mm
204215-308	Altura Eclipse Plus C18, 1.8 µm, 2.1 × 150 mm

Altura Poroshell HILIC-Z

Versatile zwitterionic HILIC phase for high- or low-pH separations of amino acids, metabolites, and other polar analytes

Part Number	Description
227205-924	Altura Poroshell HILIC-Z, 2.7 µm, 2.1 × 50 mm
227210-924	Altura Poroshell HILIC-Z, 2.7 µm, 2.1 × 100 mm
227215-924	Altura Poroshell HILIC-Z, 2.7 µm, 2.1 × 150 mm

Altura Peptide Plus columns

Charged-surface C18 phase recommended for analysis of therapeutic peptides

Part Number	Description
227205-903	Altura Peptide Plus, 2.7 µm, 2.1 × 50 mm
227210-903	Altura Peptide Plus, 2.7 µm, 2.1 × 100 mm
227215-903	Altura Peptide Plus, 2.7 µm, 2.1 × 150 mm
227225-903	Altura Peptide Plus, 2.7 µm, 2.1 × 250 mm
227405-903	Altura Peptide Plus, 2.7 µm, 4.6 × 50 mm
227410-903	Altura Peptide Plus, 2.7 µm, 4.6 × 100 mm
227415-903	Altura Peptide Plus, 2.7 µm, 4.6 × 150 mm

Altura Oligo HPH-C18 columns

High-pH-stable reversed-phase columns qualified for high-resolution oligonucleotide separations

Part Number	Description
227205-702	Altura Oligo HPH-C18, 2.7 µm, 2.1 x 50 mm
227210-702	Altura Oligo HPH-C18, 2.7 µm , 2.1 x 100 mm
227215-702	Altura Oligo HPH-C18, 2.7 µm, 2.1 x 1 50 mm
227405-702	Altura Oligo HPH-C18, 2.7 µm, 4.6 x 50 mm
227410-702	Altura Oligo HPH-C18, 2.7 µm, 4.6 x 100 mm
227415-702	Altura Oligo HPH-C18, 2.7 µm, 4.6 x 150 mm

Altura Poroshell HPH-C18 columns

Versatile high-pH-stable reversed-phase columns

Part Number	Description
217205-502	Altura Poroshell HPH-C18, 1.9 µm, 2.1 × 50 mm
217210-502	Altura Poroshell HPH-C18, 1.9 µm, 2.1 × 100 mm
217215-502	Altura Poroshell HPH-C18, 1.9 µm, 2.1 × 150 mm

Meet your most complex analytical challenges

Agilent Infinity III bio LC solutions deliver robust, reliable performance for demanding analytical workflows, including biopharma and environmental targets prone to metal chelation. The 1290 Infinity III bio LC system offers high chromatographic precision for complex separations, while the 1260 Infinity III bio-inert LC system provides maximum inertness and durability for metal-sensitive and high-salt applications. Both systems feature advanced Infinity III technology for enhanced usability, seamless compatibility with InfinityLab consumables, and long-term reliability in regulated environments.

1290 Infinity III bio LC

1260 Infinity III bio-inert LC

Simplify your MS analysis with inert solvent handling

Avoid introducing sodium and potassium ions, which can contaminate your MS source and create unwanted adducts that complicate your MS data.

Propylene bio solvent bottle
p/n 9301-6028

Bio solvent inlet filter
p/n 5320-0070

Learn more:
www.agilent.com/columns/altura

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