

Analyze Challenging Polar Compounds with Confidence

Agilent InfinityLab Poroshell 120 HILIC columns



Hydrophilic interaction chromatography (HILIC) allows you to retain and separate polar analytes using a standard LC system and common reversed-phase solvents.

New Agilent InfinityLab Poroshell 120 HILIC chemistries combine innovative particle technology and bonded phases to improve retention and peak shape for polar analytes. So you can quickly and efficiently separate challenging, highly charged polar compounds—and achieve superior analytical sensitivity in MS mode using MS-friendly eluents.

InfinityLab Poroshell 120 HILIC-Z columns

- Zwitterionic stationary phase bonded to 1.9, 2.7 and 4 μm Poroshell 120 particles
- PEEK-lined column option in 2.7 μm for excellent peak shape and recovery of particularly challenging charged compounds
- High pH and temperature stability: Up to pH 12 and 80 $^{\circ}\text{C}$

InfinityLab Poroshell 120 HILIC-OH5 columns

- Novel poly-hydroxy fructan phase bonded to 2.7 μm Poroshell 120 particles
- Offer alternate selectivity to HILIC and HILIC-Z phases

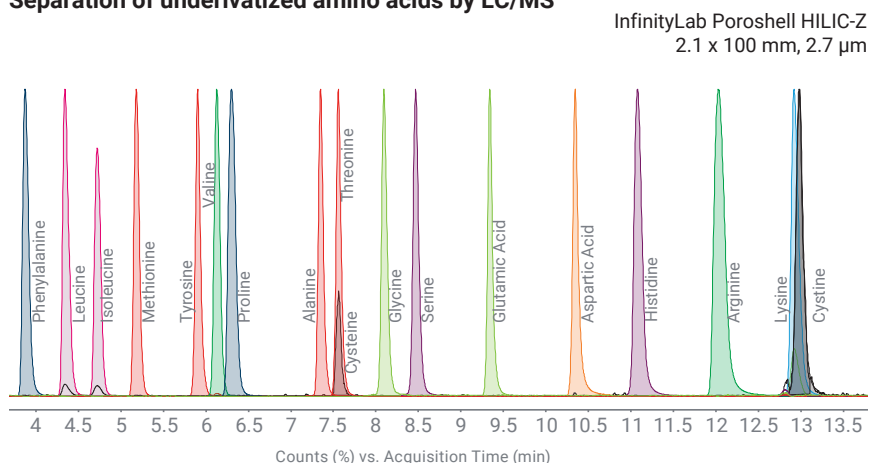


Complete your HILIC workflow

The InfinityLab Deactivator Additive and InfinityLab Poroshell 120 HILIC Columns provide a complete HILIC solution. This simple workflow reduces analyte interaction with metal in the system—increasing instrument sensitivity and saving time.

www.agilent.com/chem/infinitylab-additive

Excellent retention, peak shape, and analytical sensitivity: Separation of underivatized amino acids by LC/MS



Conditions:

Mobile phase A: 20 mM ammonium formate in H_2O , pH3

Mobile phase B: 90:10 ACN/ H_2O with 20 mM ammonium formate, pH3

Gradient: 100% – 76% B in 15 minutes

Flow rate: 0.6 ml/min

Temp: 30 $^{\circ}\text{C}$

MS detection: Agilent MS-QQQ, dynamic MRM mode

Ordering Information

InfinityLab Poroshell 120 2.7 µm HILIC columns: best for polar separations

Size (mm)	HILIC	HILIC-OH5	HILIC-Z	HILIC-Z (PEEK-lined)
2.1 x 50	699775-901	689775-601	689775-924	679775-924
2.1 x 100	695775-901	685775-601	685775-924	675775-924
2.1 x 150	693775-901	683775-601	683775-924	673775-924
3.0 x 50	699975-301		689975-324	
3.0 x 100	695975-301		685975-324	
3.0 x 150	693975-301		683975-324	
4.6 x 50	699975-901	689975-601	689975-924	
4.6 x 100	695975-901	685975-601	685975-924	
4.6 x 150	693975-901	683975-601	683975-924	

InfinityLab Poroshell 120 HILIC-OH5 has a 400 bar maximum pressure limit and is not available with a preprogrammed column ID.

InfinityLab Poroshell 120 1.9 µm columns: highest UHPLC performance

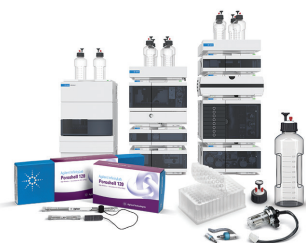
Size (mm)	HILIC	HILIC-Z
3.0 x 150	693675-301	
3.0 x 100	695675-301	
3.0 x 50	699675-301	
3.0 x 30	699675-301	
2.1 x 150	693675-901	683675-924
2.1 x 100	695675-901	685675-924
2.1 x 50	699675-901	689675-924

All InfinityLab Poroshell 120 1.9 µm columns are supplied with a preprogrammed column ID.

InfinityLab Poroshell 120 4 µm columns: improved HPLC performance

Size (mm)	HILIC	HILIC-Z
4.6 x 250	690970-901	680970-924*
4.6 x 150	693970-901	683970-924*
4.6 x 100	695970-901	685970-924*
4.6 x 50	699970-901	689970-924*
3.0 x 250	690970-301	
3.0 x 150	693970-301	
3.0 x 100	695970-301	
3.0 x 50	699970-301	
2.1 x 250	650750-901	
2.1 x 150	693770-901	
2.1 x 100	695770-901	
2.1 x 50	699770-901	

InfinityLab Poroshell 120 4 µm columns have a 600 bar/9,000 psi pressure limit. Only products marked with an * are supplied with a preprogrammed column ID as standard. To order other columns with column ID, suffix the part number with "T" (example 690970-902T).



You can rely on **Agilent InfinityLab** LC instruments, columns, and supplies to deliver rugged quality and robust analytical results. But our promise to you does not stop there. Every component of the Agilent InfinityLab family is uniquely designed to work together, and to help you continuously improve your workflow, for efficiency gains that help you get more done and reduce operational costs.

Learn more at www.agilent.com/chem/infinitylab

Learn more

www.agilent.com/chem/poroshell-120

For Research Use Only. Not for use in diagnostic procedures.

This information is subject to change without notice.