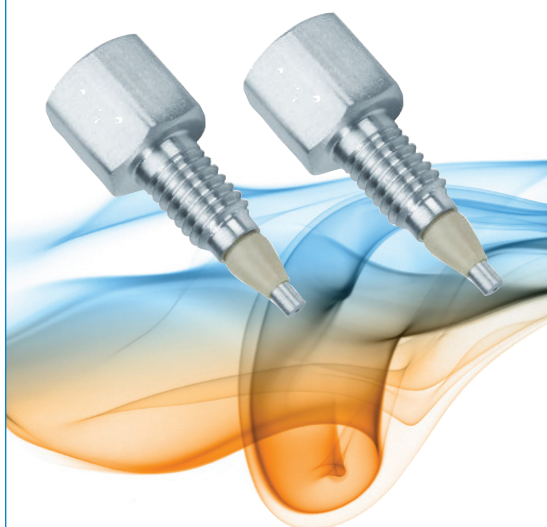




Restek LC

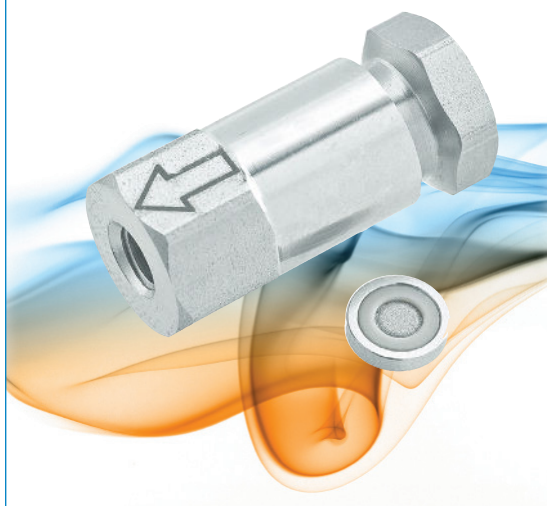
UHPLC Filters

Protect Your Column and
Chromatographic Performance



UltraShield UHPLC Precolumn Filter

- Economical protection against microparticles.
- Extend UHPLC column lifetime.
- Negligible effect on column performance.
- Connects easily to any column with Parker-style ports; not compatible with Waters columns.
- Leak tight to 15,000 psi (1,034 bar).
- Does not contribute to system backpressure.
- Does not contribute to band broadening.



UltraLine UHPLC In-Line Filter

- Cost-effective protection for UHPLC systems.
- Installs quickly with standard UHPLC fittings.
- Includes replaceable filter element.
- Low dead volume supports many applications.
- Leak tight to 15,000 psi (1,034 bar).

UltraShield UHPLC PreColumn Filter

- Cost-effective protection for UHPLC systems.
- Reliable way to extend column lifetime.
- Connects easily to any column with Parker-style ports; not compatible with Waters columns.
- Leak tight to 15,000 psi (1,034 bar).

Specifications:

Inlet/Outlet: Female/Male 10-32
 Port Geometry: Parker ($\frac{1}{16}$ CPI)
 Material: stainless steel, PEEK ferrule
 Filter: 0.5 μ m or 0.2 μ m stainless steel
 Pressure Rating: 15,000 psig (1034 bar)
 Wrench Flat: $\frac{5}{16}$ "



Description	Filter Porosity	qty.	cat.#
UltraShield UHPLC PreColumn Filter	0.5 μ m frit	ea.	24995
		5-pk.	24996
		10-pk.	24997
UltraShield UHPLC PreColumn Filter	0.2 μ m frit	ea.	25809
		5-pk.	25810
		10-pk.	25811

UltraLine UHPLC In-Line Filter

- In-line design installs easily with standard fittings.
- Cost-effective protection for UHPLC systems.
- Reliable way to extend column lifetime.
- Leak tight to 15,000 psi (1,034 bar).

Specifications:

Inlet/Outlet: Female/Female 10-32
 Port Geometry: Parker ($\frac{1}{16}$ CPI)
 Material: Stainless steel housing
 Filter: 0.5 μ m stainless steel, 0.125" W x 0.062" T, 5 μ L volume
 Pressure Rating: 15,000 psig (1034 bar)
 Wrench Flat: $\frac{3}{8}$ "



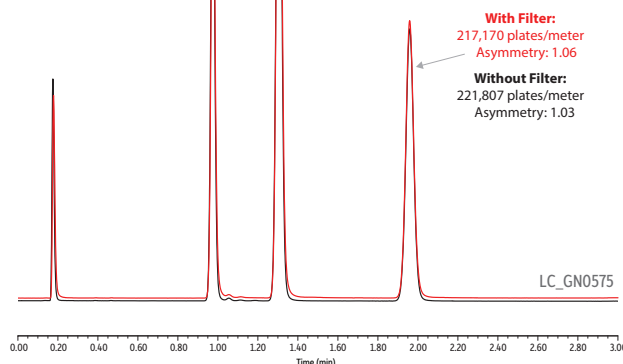
Description	qty.	cat.#
UltraLine UHPLC In-Line Filter (In-Line Assembly with Filter)	ea.	24993
UltraLine UHPLC In-Line Replacement Filters	5-pk.	24994

UltraShield Precolumn Filters Protect Your Column without Altering Chromatographic Performance



Peaks	tr (min)	Conc. (mg/mL)
1. Uracil	0.18	0.02
2. Toluene	0.97	3.0
3. Naphthalene	1.31	0.5
4. Biphenyl	1.96	0.06

Column Force C18 LC Column (cat.# 9634252), Dimensions: 50 mm x 2.1 mm ID, Particle Size: 1.8 μ m, Pore Size: 100 Å, Guard Column: UltraShield UHPLC precolumn filter (cat.# 24995), Temp.: 30 °C; Sample Diluent: Acetonitrile, Inj. Vol.: 0.5 μ L; Mobile Phase Water:acetonitrile (45:55), Flow: 0.6 mL/min, Max Pressure: 525 bar; Detector UV/Vis @ 254 nm, Cell Temp: 30 °C, Instrument UHPLC

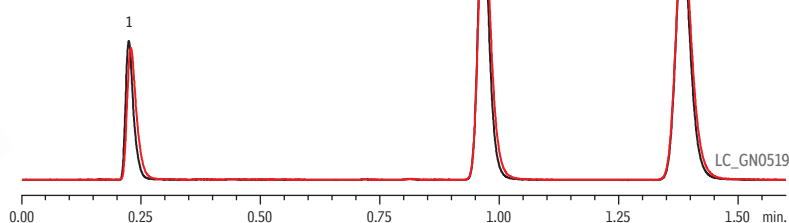


UltraLine In-Line Filters Protect Your Column without Altering Chromatographic Performance



Peaks	tr (min)	Conc. (mg/mL)
1. Uracil	0.22	0.02
2. Naphthalene	0.97	0.5
3. Biphenyl	1.38	0.06

with filter
 without filter



Column Pinnacle DB C18 (cat.# 9414252), Dimensions: 50 mm x 2.1 mm ID, Particle Size: 1.9 μ m, Pore Size: 140 Å, Temp.: 30 °C; Sample Diluent: Mobile phase, Inj. Vol.: 0.5 μ L; Mobile Phase Water:Acetonitrile (45:55), Flow: 0.6 mL/min.; Detector UV/Vis @ 254 nm, Cell Temp.: 30 °C; Instrument Shimadzu UFLCxx; Notes UltraLine UHPLC In-Line Assembly with Filter (cat.# 24993)

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Lit. Cat.# GNSS1296B-UNV