

Raptor™

LC Columns

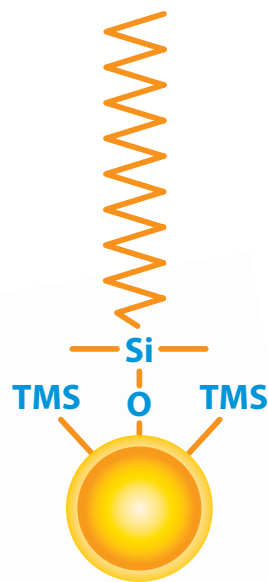
Selectivity Accelerated

Stationary Phase: C18

NEW

Raptor™ Speed, Efficiency, and Ruggedness—Now in C18

Every LC lab has a cache of C18s, but every C18 is *not* created equal. When you need a general-purpose LC column, don't just grab any C18. Choose the speed, efficiency, and long-lasting ruggedness of the new Raptor™ C18.



RESTEK®

www.restek.com/raptor

Raptor™ C18 Columns

- A traditional end-capped C18 ideal for general-purpose use in reversed-phase chromatography.
- Wide pH range (2–8) provides excellent data quality for many applications, matrices, and compounds.
- Offers the highest hydrophobic retention of any Raptor™ phase.

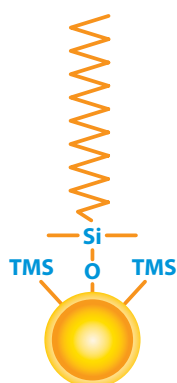
To lower costs and improve profitability, you need columns to last longer, data to be reproducible, and existing HPLC instrumentation to run faster. Get there with the only general-purpose C18 that gives you *Selectivity Accelerated*.

Outfit your lab with Raptor™ C18s at www.restek.com/raptor

Part of Restek's Raptor™ LC column line featuring 2.7 and 5 μm SPP core-shell silica:

- Higher efficiency and resolution for drastically faster analysis times.
- Increased sample throughput with existing HPLC instrumentation
- Long-lasting ruggedness for dependable reproducibility.

Column Description:



Stationary Phase Category:

C18, octadecylsilane (L1)

Ligand Type:

End-capped C18

Particle:

2.7 μm or 5 μm superficially porous silica (SPP or "core-shell")

Pore Size:

90 Å

Surface Area:

150 m²/g (2.7 μm) or 100 m²/g (5 μm)

Recommended Usage:

pH Range: 2.0–8.0

Maximum Temperature: 80 °C

Maximum Pressure: 600 bar / 8,700 psi (2.7 μm)
or 400 bar / 5,800 psi (5 μm)

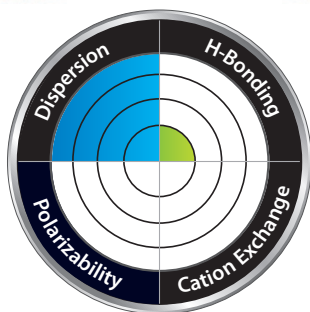
Properties:

- Compatible with moderately acidic to neutral mobile phases (pH 2–8).
- Excellent data quality in food, environmental, bioanalytical, and other applications.

Switch to a C18 when:

- You need a general-purpose column for reversed-phase chromatography.
- You need to increase retention of hydrophobic compounds.

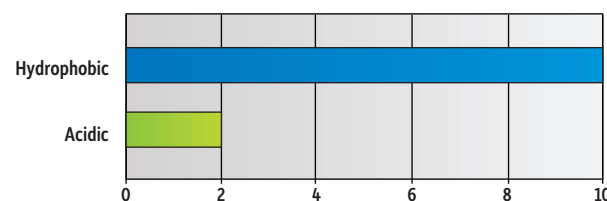
Column Interaction Profile:



Defining Solute Interaction:

- Dispersion

Solute Retention Profile:

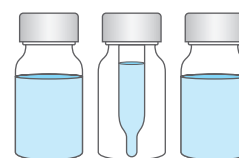


Target Analyte Structure:

- Hydrocarbons

Target Analyte Functionality:

- Hydrophobic compounds



Raptor™ C18 Performance: Speed, Efficiency, and Ruggedness in Action

Figure 1: Even at high pressures, long-lasting Raptor™ C18 columns maintain their stability and efficiency, so you can operate at higher linear velocities to achieve fast, accurate separations without UHPLC.

Stable at high pressures for faster run times

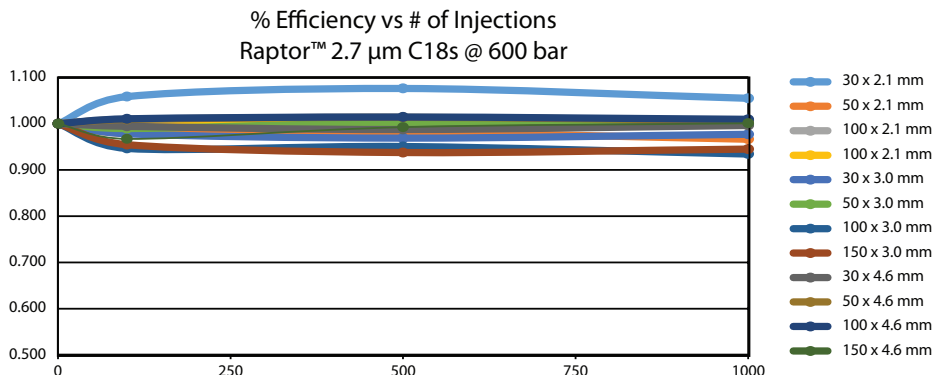
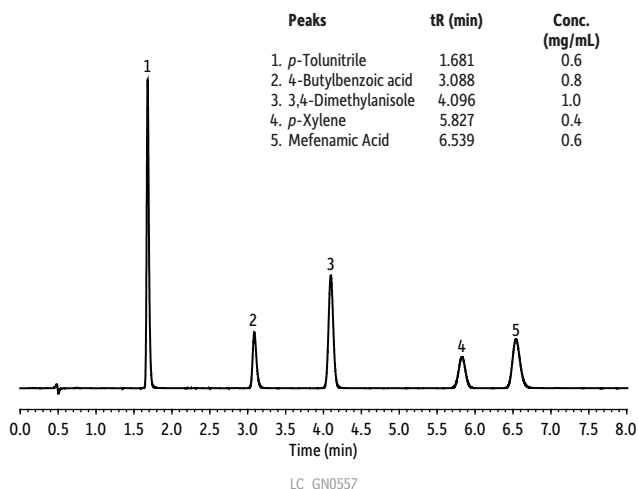


Figure 2: Raptor™ columns' stringent quality control (QC) specifications guarantee outstanding peak shape, even with active compounds, for superior data quality.

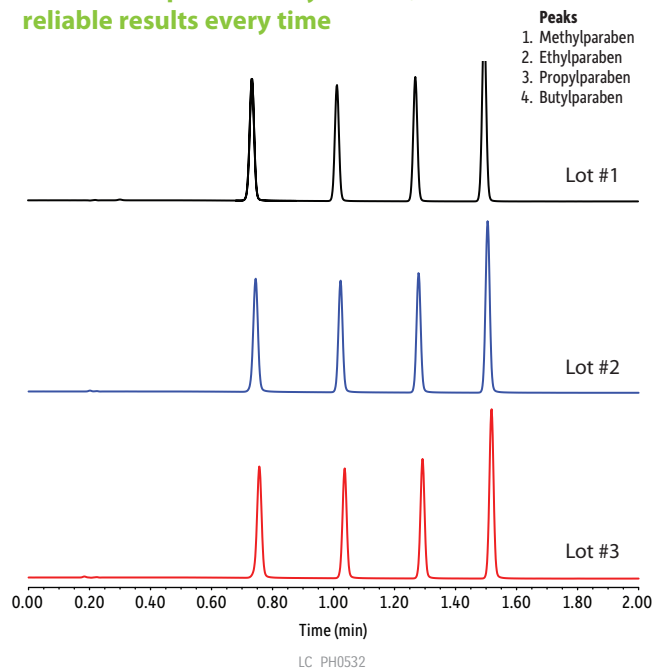
Outstanding peak shapes for top-notch data



Column: Raptor™ C18 (cat.# 9304A1E); Dimensions: 100 mm x 3 mm ID; Particle Size: 2.7 µm; Pore Size: 90 Å; Temp.: 30 °C; **Sample:** Diluent: Acetonitrile:water:phosphoric acid (65:34:1); Inj. Vol.: 1 µL; **Mobile Phase:** A: 0.05% Formic acid in water, B: 0.05% Formic acid in acetonitrile; **Gradient (%B):** 0.00 min (45% B), 8.00 min (45% B); **Flow:** 0.8 mL/min; **Detector:** UV/Vis @ 220 nm; Cell Temp: 40 °C; **Instrument:** HPLC.

Figure 3: Lot-to-lot reproducibility is the key to keeping your productivity high and budget low. You can expect the same exceptional performance from every Raptor™ C18 column you purchase.

Lot-to-lot reproducibility for fast, reliable results every time



Column: Raptor™ C18 (cat.# 9304512); Dimensions: 100 mm x 2.1 mm ID; Particle Size: 5 µm; Temp.: 40 °C; **Sample:** Conc.: 100 µg/mL in water; Inj. Vol.: 1 µL; **Mobile Phase:** A: Water, B: Acetonitrile; **Gradient (%B):** 0.00 min (20% B), 2.00 min (80% B), 2.01 min (20% B), 3.50 min (20% B); **Flow:** 1.0 mL/min; **Detector:** PDA @ 254 nm; **Instrument:** UHPLC.

Experience *Selectivity Accelerated*. Order the Raptor™ C18 today at www.restek.com/raptor

Lower Costs and Improve Profitability With the Only General-Purpose C18 That Gives You *Selectivity Accelerated*

Raptor™ C18 LC Columns



Length	2.1 mm cat.#	30 mm cat.#	4.6 mm cat.#
2.7 μm Columns			
30 mm	9304A32	9304A3E	9304A35
50 mm	9304A52	9304A5E	9304A55
100 mm	9304A12	9304A1E	9304A15
150 mm	9304A62	9304A6E	9304A65
5 μm Columns			
30 mm	—	930453E	—
50 mm	9304552	930455E	9304555
100 mm	9304512	930451E	9304515
150 mm	9304562	930456E	9304565
250 mm	—	—	9304575

EXP® Reusable Fittings for HPLC & UHPLC

for 10-32 fittings and 1/16" tubing

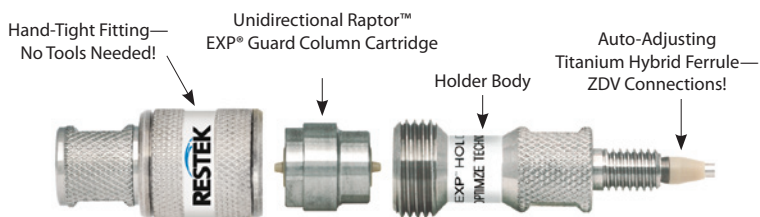
Effortlessly achieve 8,700+ psi HPLC seals by hand! (Wrench-tighten to 20,000+ psi.) Hybrid titanium/PEEK seal can be installed repeatedly without compromising your seal.



Description	qty.	cat.#
EXP Hand-Tight Fitting (Nut w/Ferrule)	ea.	25937
EXP Hand-Tight Fitting (Nut w/Ferrule)	10-pk.	25938
EXP Hand-Tight Nut (w/o Ferrule)	ea.	25939

Hybrid Ferrule U.S. Patent No. 8201854, Optimize Technologies. Optimize Technologies EXP Holders are Patent Pending. Other U.S. and Foreign Patents Pending. The EXP, Free-Turn, and the Opti- prefix are registered trademarks of Optimize Technologies, Inc.

Raptor™ EXP® Guard Cartridges



Protect your investment and extend the life of our already-rugged LC columns and change guard column cartridges by hand without breaking fluid connections—no tools needed!

EXP® Direct Connect Holder

Description	qty.	cat.#
EXP Direct Connect Holder for EXP Guard Cartridges (includes hex-head fitting & 2 ferrules)	ea.	25808

Raptor™ EXP® Guard Column Cartridges

Description	Particle Size	qty.	5 x 2.1 mm cat.#	5 x 3.0 mm cat.#	5 x 4.6 mm cat.#
Raptor C18 EXP Guard Column Cartridge	2.7 μm	3-pk.	9304A0252	9304A0253	9304A0250
Raptor C18 EXP Guard Column Cartridge	5 μm	3-pk.	930450252	930450253	930450250

Maximum cartridge pressure: 600 bar / 8,700 psi (2.7 μm) or 400 bar / 5,800 psi (5 μm)

Raptor™ SPP LC columns combine the speed of SPP with the resolution of USLC® technology. Learn more at www.restek.com/raptor

Experience *Selectivity Accelerated*. Order the Raptor™ C18 today at www.restek.com/raptor

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