

New 1.9 μ m Pinnacle™ DB

Small Particle HPLC Columns

Restek's popular Pinnacle™ DB HPLC columns are now available in a <2 μ m particle size.

Ruggedness and reproducibility are guaranteed, as we control every step in the process, from base silica to bonded phase to final packed column. The silica particles are classified and selected to give an exceptionally tight distribution around 1.9 μ m, while eliminating <1 μ m particles that can contribute to a poorly packed bed. Highly base-deactivated Pinnacle™ DB stationary phases are an excellent choice when analyzing a wide range of compounds, from acidic to basic. To optimize your ultra high pressure HPLC methods, reach for Restek small particle HPLC columns!



new!

1.9 μ m Pinnacle™ DB HPLC Columns

Physical Characteristics:

particle size: 1.9 μ m
pore size: 140Å

endcap: yes
pH range: 2.5 to 7.5
temperature limit: 80°C

Chromatographic Properties:

Highly base-deactivated spherical silica manufactured by Restek.

Length	2.1mm ID cat.#
Pinnacle™ DB C18 1.9μm Columns	
30mm	9414232
50mm	9414252
100mm	9414212
Pinnacle™ DB Silica 1.9μm Columns	
30mm	9410232
50mm	9410252
100mm	9410212
Pinnacle™ DB PFP Propyl 1.9μm Columns	
30mm	9419232
50mm	9419252
100mm	9419212
Pinnacle™ DB Biphenyl 1.9μm Columns	
30mm	9409232
50mm	9409252
100mm	9409212
Pinnacle™ DB Aqueous C18 1.9μm Columns	
30mm	9418232
50mm	9418252
100mm	9418212
Pinnacle™ DB Cyano 1.9μm Columns	
30mm	9416232
50mm	9416252
100mm	9416212

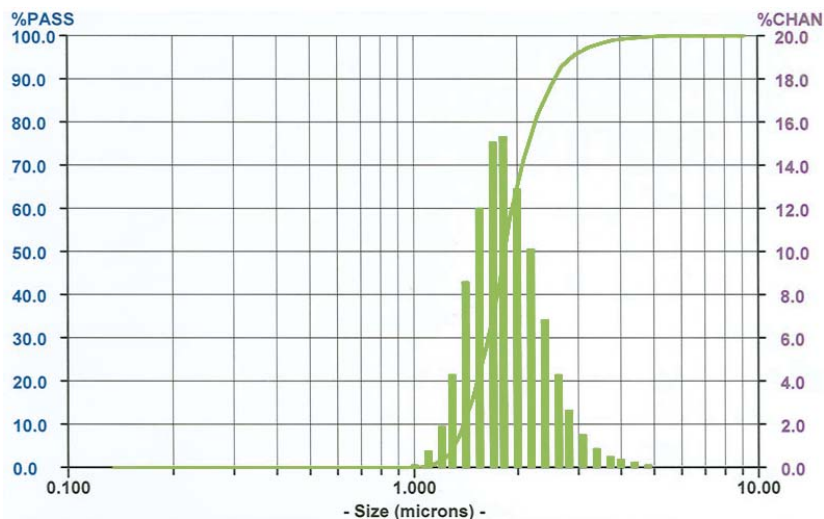
free literature

Optimize Selectivity &
Efficiency in UHPLC
Separations

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www.restek.com.

Applications Note
lit. cat.# 580202

Figure 1 Pinnacle™ DB silica particle size distribution chart shows an exceptionally tight, symmetrical distribution around 1.9µm with no <1µm particles.



Rick Lake
Innovations Chemist
3+ years of service!

HPLC COLUMNS

Figure 2 Excellent peak symmetry and efficiency on a 1.9µm Pinnacle™ DB C18 column, using a reversed phase test mix.

Peak List:

1. uracil	3.00 mg/mL
2. benzene	0.02 mg/mL
3. naphthalene	0.50 mg/mL
4. biphenyl	0.06 mg/mL

Performance: (calculations for biphenyl)

Efficiency:	217,619n/m
Asymmetry:	1.10
Pressure:	4,500psi

Sample:

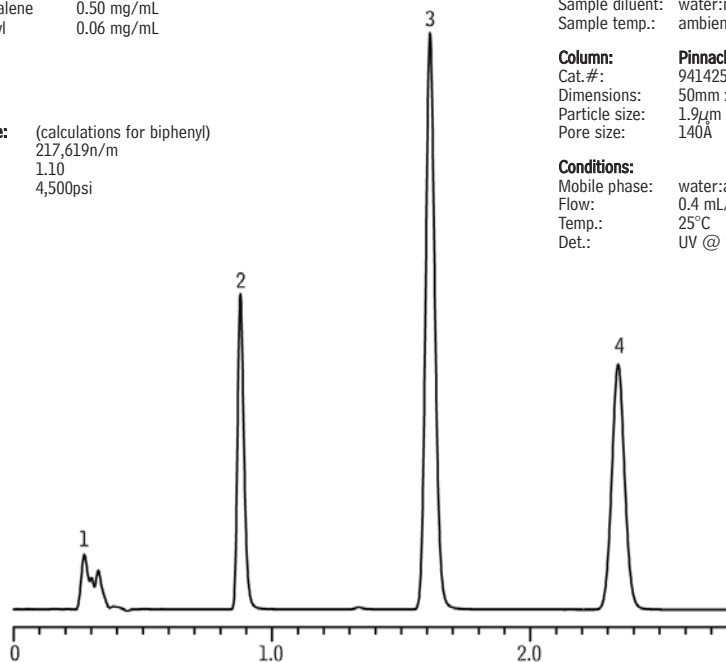
Inj.:	2µL HPLC Reversed Phase Test Mix #1 (cat.# 35005)
Sample diluent:	water:methanol (25:75)
Sample temp.:	ambient

Column: Pinnacle™ DB C18

Cat.#:	9414252
Dimensions:	50mm x 2.1mm
Particle size:	1.9µm
Pore size:	140Å

Conditions:

Mobile phase:	water:acetonitrile (45:55)
Flow:	0.4 mL/min.
Temp.:	25°C
Det.:	UV @ 254nm



LC_EX0427

for **more info**

For more information on the small particle advantage, visit www.restek.com/uhplc.

