

Bidentate C8™ column for more Hydrophobic compounds.

Shorter analysis time.

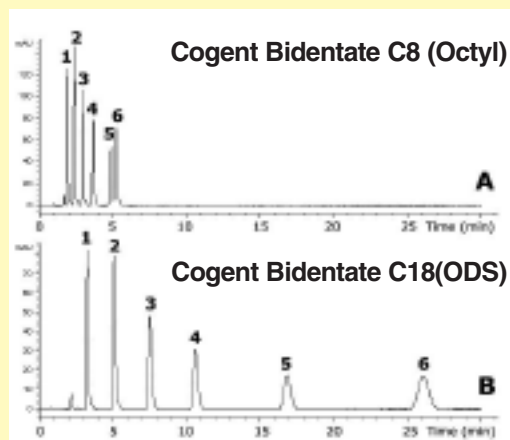
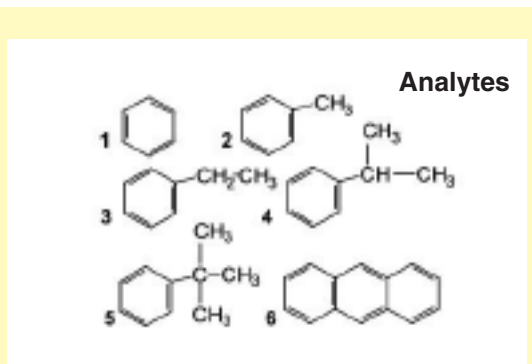


TABLE 1

Column	k1' tert.-butylbenzene	k2' anthracene	a= k2'/k1'
A. Cogent C8	4.19	4.57	1.10
B. Cogent BDC18	19.98	31.49	1.58

Method Conditions

Column: A: Cogent Bidentate C8 (Octyl), 4µm, 100Å.
B: Cogent Bidentate C18(ODS), 4µm, 100Å

Catalog No.: A: 40008-75P B: 40018-7.5P

Dimensions: 4.6 x 75 mm

Mobile phase: 70:30 methanol/DI water

Flow rate: 1.0 mL/minute

Injection Volume: 5 µL

Sample: Universal LC Test Mix
1. benzene 4. isopropyl benzene
2. toluene 5. tert.-butylbenzene
3. ethylbenzene 6. anthracene

Detection: UV 254 nm

Discussion

For separations requiring a less hydrophobic stationary phase Cogent C8 can be used successfully as demonstrated in the chromatograms. The retention on the C8 column is lower when compared with a C18 column under the same mobile phase conditions, but since the efficiency is excellent the separation goals can be achieved in a shorter time. The C8 phase is suited for more hydrophobic proteins and peptides and large nonpolar organic compounds. For increased retention higher percentages of water in the mobile phase can be used. The diminished hydrophobicity is shown in Table 1.

For more information visit www.MTC-USA.com

Cat. No.	Description
40008-75P	Cogent Bidentate C8 HPLC Column. 4µm, 100Å. 75mm x 4.6mm ID.
40018-75P	Cogent Bidentate C18 HPLC Column. 4µm, 100Å. 75mm x 4.6mm ID.