PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40008-05P

HPLC Column, Bidentate C8, 4um, 4.6mm ID x 50mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40008 05P Cogent Bidentate C8™ HPLC Column is a short length analytical reversed phase column designed for fas separations, good resolution, and high throughput screening. Manufactured using Cogent TYPE C™ silica hydride technology, this column delivers excellent selectivity, rapid equilibration, and exceptionally long column lifetime compared with conventional silica based C8 columns.

The stationary phase consists of an aliphatic C8 hydrocarbon chain bonded via two direct silicon – carbon bonds (bidentate attachment) to a silica hydride surface. This non traditional chemistry produces a phase that is more hydrophobic than standard C8 columns, yet less hydrophobic than Bidentate C18™, making it ideal when C18 retention is excessive but stronger retention than conventional C8 is still required.

Unlike traditional C8 phases, the Bidentate C8™ can retain certain hydrophilic compounds if desired and is stable at very low pH (below pH /2) without deterioration—greatly expanding the method development window.

The 4.6 /mm ID × /50 /mm length format provides short run times, good efficiency, and robustness, making this column a

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