PRODUCT SHEET

MICROSOLV TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40008-SP100

Semi Prep HPLC Column, Bidentate C8, 4um, 100A. 10mm ID x 100mm Length. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40008 SP100 Cogent Bidentate C8™ Semi Preparative HPLC Column is a longer, large diameter purification column designed for applications requiring enhanced resolution and higher purity fraction collection compared to shorter semi prep formats. Built on Cogent TYPE C™ silica hydride technology, this column provides excellent selectivity, rapid equilibration, and very robust column lifetime under demanding purification workflows.

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 creates a phase that is more hydrophobic than conventional C8 columns, yet less hydrophobic than Bidentate C18™, making it ideal for hydrophobic molecules, metabolites, and amine containing analytes when C18 retention is excessive.

With a 10 /mm internal diameter and 100 /mm length, this column delivers increased plate count and improved separation efficiency compared with 50 /mm semi prep formats. This allows better resolution of closely eluting compounds while still supporting large injection volumes and high mass loading for purification workflows.

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