PRODUCT SHEET

MICROSOLV TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40008-SP250-3M

Semi Prep HPLC Column, Bidentate C8 300, 5um, 300A. 10mm ID x 250mm Length. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40008 SP250 3M Cogent Bidentate C8™ /300 Semi Preparative HPLC Column is a long format, wide pore semi prep column designed for high capacity purification and maximum resolution separation of macromolecules, including proteins, peptides, and polysaccharides. Built on Cogent TYPE C™ silica hydride technology, this column delivers excellent selectivity, fast equilibration, and very robust column lifetime under demanding preparative workflows.

The stationary phase uses an aliphatic C8 hydrocarbon chain bonded via direct silicon – carbon bonds to a silica hydride surface. This chemistry produces a phase that is more hydrophobic than conventional wide pore C8 columns, yet more appropriately balanced for biomolecules than C18, allowing strong yet controlled retention without excessive adsorption. The 300 /Å pore structure enables efficient analyte access, improving mass transfer, peak shape, and purification performance for large molecules.

Unlike conventional wide pore silica phases, Bidentate C8™ /300 can retain compounds that often show poor or inconsistent retention on traditional materials. It can also retain select hydrophilic macromolecules, particularly when used under HI

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