PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40018-05P-2

HPLC Column, Bidentate C18, 4um, 2.1mm ID x 50mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40018 05P 2 Cogent Bidentate C18™ HPLC Column is a short, narrow bore reversed phase column engineered fo LC MS and low flow analytical separations where sensitivity, speed, and robustness are critical. Built on Cogent TYPE C™ silica hydride technology, this column departs from conventional bonded silica C18 designs to deliver unique selectivity, rapid equilibration, and exceptional chemical stability.

The stationary phase consists of an aliphatic C18 chain bonded via two direct silicon – carbon bonds (bidentate attachment). This chemistry produces a surface that is highly hydrophobic yet versatile, allowing retention of compounds that often show little or no retention on traditional C18 columns. Unlike standard silica phases, this column can be used with 100 /% aqueous mobile phases without loss of retention or phase collapse.

The 2.1 /mm internal diameter significantly reduces solvent consumption and enhances detector sensitivity, making this column a preferred choice for LC MS workflows. Because of the reduced internal volume, it should be used with instrumentation capable of precise low flow delivery and flow cells designed for reduced flow rates.

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