PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40218-05P-2

HPLC Column, Bidentate C18 2.o, 2.2um, 2.1mm ID x 50mm Length, 120A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40218 05P 2 Cogent Bidentate C18™ /2.o HPLC Column is a high efficiency, narrow bore reversed phase column engineered for laboratories seeking near UHPLC performance on standard HPLC instruments. Built on Cogent TYPE C™ silica hydride technology, this column combines smaller 2.2 /µm particles with bidentate C18 bonding to deliver increased efficiency, excellent selectivity, and fast equilibration—without requiring UHPLC rated hardware.

The silica hydride surface with direct Si – C bonding produces exceptional chemical robustness and reduced secondary interactions relative to conventional silica based C18 columns. The Bidentate C18™ /2.o chemistry is particularly effective for very hydrophobic and non polar compounds that are difficult to retain under aqueous mobile phase conditions, while remaining mass spectrometry friendly.

The 2.1 /mm ID × 50 /mm geometry supports low flow operation, enhancing MS sensitivity and reducing solvent consumption. Because of the reduced internal volume and higher efficiency, this column should be used with pumps capable of precise low flow delivery and detector flow cells designed for reduced volumes.

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