PRODUCT SHEET

MICROSOLV TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40018-P21-100

Prep HPLC Column, Bidentate C18, 4um, 100A. 21.2mm ID x 100mm Length. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40018 P21 100 Cogent Bidentate C18™ Preparative HPLC Column is a longer preparative scale column designed for applications that require greater separation efficiency and higher purity fractions than short length prep formats. Manufactured using Cogent TYPE C™ silica hydride technology, this column delivers excellent selectivity, fast equilibration, and very robust column lifetime under demanding preparative conditions.

The stationary phase employs an aliphatic C18 chain bonded via two direct silicon – carbon bonds (bidentate attachment) to a silica hydride surface. This chemistry produces a phase that is highly hydrophobic yet versatile, providing strong, stable retention of hydrophobic molecules, metabolites, and amine containing analytes. Unlike conventional silica based prep C18 columns, the TYPE C™ hydride surface remains stable in aqueous dominant mobile phases and tolerates low pH conditions, expanding method flexibility for purification workflows.

With a 21.2 /mm internal diameter and an extended 100 /mm length, this column offers increased plate count and improved resolution compared with 21.2 /× /50 /mm formats, making it well suited when closely related components m...

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