PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40018-15P-3

CUSTOM ITEM: HPLC Column, Bidentate C18, 4um, 3.0mm ID x 150mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40018 15P 3 Cogent Bidentate C18™ HPLC Column is a custom manufactured, long format mid bore column designed for analytical separations requiring maximum resolving power while reducing mobile phase consumption compared to standard 4.6 /mm ID columns. Built on Cogent TYPE C™ silica hydride technology, this column offers unique selectivity, rapid equilibration, and exceptional chemical robustness under demanding method conditions.

The stationary phase uses 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, enabling retention of compounds that often show weak or unstable retention on conventional silica based C18 columns. Unlike traditional C18 phases, this column supports 100 /% aqueous mobile phases without phase collapse and tolerates very low pH conditions (below pH /2) with no damage.

The 3.0 /mm internal diameter and 150 /mm length deliver increased plate count and separation efficiency relative to shorter formats, while operating at lower flow rates than 4.6 /mm ID columns—providing meaningful solvent savings

MicroSolv Technology Corporation
9158 Industrial Blvd. NE, Leland, NC 28451
tel. (732) 380-8900, fax (910) 769-9435
Email: info@mtc-usa.com
Website: www.mtc-usa.com