PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40018-10P

HPLC Column, Bidentate C18, 4um, 4.6mm ID x 100mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40018 10P Cogent Bidentate C18™ HPLC Column is an analytical scale reversed phase column designed for separations that require greater resolving power than short (50 /mm) columns, but without the long run times associated with very long column formats. Built on Cogent TYPE C™ silica hydride technology, this column delivers unique selectivity, fast equilibration, and exceptional chemical robustness.

The stationary phase uses an aliphatic C18 chain bonded via two direct silicon – carbon bonds (bidentate attachment) to a silica hydride surface. This chemistry creates a highly stable, hydrophobic phase that behaves differently from conventional silica based C18 columns—retaining compounds that often show poor or inconsistent retention on standard bonded phases.

Unlike traditional C18 columns, the Bidentate C18™ can be operated with 100 /% aqueous mobile phases without phase collapse and can tolerate very low pH conditions (below pH /2) with no damage to the column. These properties make it suitable for methods that challenge conventional reversed phase technologies.

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