PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40018-15P-2

HPLC Column, Bidentate C18, 4um, 2.1mm ID x 150mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40018 15P 2 Cogent Bidentate C18™ HPLC Column is a long format, narrow bore analytical column designed for LC MS workflows requiring maximum resolving power. Built on Cogent TYPE C™ silica hydride technology, this column delivers unique selectivity, rapid equilibration, and exceptional chemical robustness compared with conventional silica based C18 columns.

The stationary phase employs an aliphatic C18 chain bonded via two direct silicon – carbon bonds (bidentate attachment) to a silica hydride surface. This chemistry yields a phase that is highly hydrophobic yet versatile, retaining compounds that often show weak or inconsistent retention on standard C18 phases. The column can operate with 100 /% aqueous mobile phases without phase collapse and tolerates very low pH conditions (below pH /2) without degradation.

The 2.1 /mm internal diameter enhances MS sensitivity while lowering solvent consumption, and the 150 /mm length provides maximum plate count for separating closely eluting or complex mixtures. This configuration is frequently chosen when increased resolution is required beyond 100 /mm LC MS columns.

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