

New Chiral B Column from Agilent

Product Brief

Columns and Supplies

In response to increasing interest from the pharmaceutical, agrochemical, and fragrance industries, Agilent Technologies has developed a versatile GC capillary column with a chiral stationary phase based on permethylated beta-cyclodextrin. The new Agilent Chiral ß capillary is especially useful for resolving volatile optical isomers.

Agilent chose beta-cyclodextrin because of its broad applicability for separating chiral compounds. Hundreds of chiral isomers can be resolved using betacyclodextrin.

In the Agilent Chiral ß phase capillary, the beta-cyclodextrin is dispersed in a phenyl-based polymer. This polymer provides low bleed, and will not interfere with nitrogen-specific detectors like the nitrogen phosphorous detector, allowing optimized sensitivity for chiral compounds containing nitrogen. This sets it apart from competitive products that use cyano-based polymers that may interfere with nitrogen detection.

Although many types of chiral columns are available, it is virtually impossible to predict which column will work for a new chiral application. This makes the Agilent Chiral ß with optimized sensitivity for nitrogen a logical choice when screening chiral isomers for the first time.







Agilent Technologies Innovating the HP Way The Agilent Chiral ß column is available in two concentrations of beta-cyclodextrin: 10% and 20%. Chiral resolution and polarity is greater with the 20% betacyclodextrin making it the column of choice for initial screenings. If an impurity interferes with the analysis of one of the chiral peaks using 20% betacyclodextrin, then the 10% betacyclodextrin column may improve the separation with the interfering compound.





Chiral ß Columns Available from Agilent

Product Name	Part Number	Configuration	% Cyclodextrin
Agilent Chiral-10 ß	19091G-B113	30 m x 0.32 mm x 0.25 µm	10%
Agilent Chiral-20 ß	19091G-B213	30 m x 0.32 mm x 0.25 µm	20%
Agilent Chiral-10 ß	19091G-B133	30 m x 0.25 mm x 0.25 µm	10%
Agilent Chiral-20 ß	19091G-B233	30 m x 0.25 mm x 0.25 µm	20%

Copyright © 1997, 2000 Agilent Technologies Printed in USA 04/00

Printed on recycled paper Publication Number 5965-7873E

