

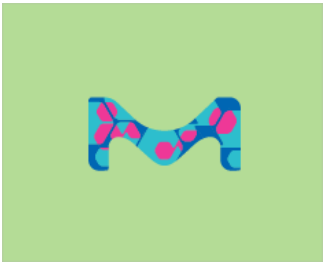


20024AST Supelco

Astec® CYCLOBOND® I 2000 Chiral HPLC Column

5 µm particle size, L × I.D. 25 cm × 4.6 mm

EC Number [231-545-4](#) | eCl@ss 32110501



FDS

Similar Products

Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
20024AST	Seulement 3 en stock (d'autres en cours d'arrivage) - A PARTIR DE	1,693.00	0

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Propriétés

Related Categories	Analytical/Chromatography, Astec CYCLOBOND Chiral HPLC Columns (Native and Derivatized Cyclodextrins), CYCLOBOND I 2000, Chiral HPLC Columns, HPLC, HPLC Columns, by USP Code, L45 Less...
packaging	pkg of 1 ea
application(s)	HPLC: suitable
L × I.D.	25 cm × 4.6 mm
matrix	silica particle platform
matrix active group	cyclodextrin, beta- phase
particle size	5 µm
pore size	100 Å
mode of chromatography	chiral

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Description

General description
CYCLOBOND I 2000 is bonded with β-cyclodextrin by a patented process to produce a stable matrix with the cyclodextrin arranged in such a way as to retain its most valuable property of forming inclusion complexes. This allows them to effect numerous chemical separations by selectively including into their cavities a wide variety of organic molecules. Non-inclusion type separations are also possible with the polar organic mode for a wide variety of molecule types.

- Bonded phase: Underivatized, native β-cyclodextrin

Resources:
[CYCLOBOND FAQs](#)
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Legal Information
Astec is a registered trademark of Sigma-Aldrich Co. LLC
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Informations Sécurité

Personal Protective Equipment	Eyeshields, Gloves, type N95 (US), type P1 (EN143) respirator filter
RIDADR	NONH for all modes of transport
WGK Germany	nwg

Documents

Certificat d'Analyse

152844-02

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Articles

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Rudolf Köhling, Roland Meier, Bernhard Schönenberger and Roland Wohlgemuth

Sigma-Aldrich®, Buchs, Switzerland

Biofiles, Vol. 8, No. 17

Keywords: Buffers, Chromatography, High performance liquid chromatography, Individual protein Immunoprecipitation, Mass spectrometry, Metabolites, Separation, Solvents

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Keywords: Chromatography, High performance liquid chromatography, Pharmaceutical

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Analytical method development for directed enzyme evolution research: a high throughput high-performance liquid chromatography method for analysis of ribose and ribitol and a capillary electrophoresis method for the separation of ribose enantiomers.

Baoguo Sun et. al

Journal of chromatography. A, 1271(1), undefined (2012-12-15)

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Ying Liu et. al

Journal of chromatography. A, 1079(1-2), undefined (2005-7-26)

Native cyclodextrin-based columns are particularly useful for the analysis of oligosaccharides because the retention of these carbohydrates is based mainly on the hydrogen bonding interactions of oligosaccharide hydroxyl groups with the stationary ph...[Read More](#)

Rapid high-performance liquid chromatographic separation of barley malt α-amylase on cyclobond columns Henson, Cynthia A., Stone, Julie M. Journal of Chromatography A 469, 361-367, (1989)

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The enantioselective determination of chlorpheniramine and its major metabolites in human plasma using chiral chromatography on a beta-cyclodextrin chiral stationary phase and mass spectrometric detection.

Karen M Fried et. al

Journal of pharmaceutical and biomedical analysis, 27(3-4), undefined (2002-1-5)

A sensitive enantioselective high-performance liquid chromatographic (HPLC) method has been developed for the simultaneous determination of plasma concentrations of (-)(R)- and (+)(S)-chlorpheniramine (CP) and their metabolites, desmethyl-chlorphenir...[Read More](#)

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High-performance liquid chromatographic separation and on-line mass spectrometric detection of saturated and unsaturated oligogalacturonic acids.

Thomas Stoll et. al

Carbohydrate research, 337(24), undefined (2002-12-21)

A method for the simultaneous determination of saturated and unsaturated oligogalacturonic acids up to degree of polymerization (dp) of 7 by high-performance liquid chromatography (HPLC) is presented. For this purpose, a Cyclobond I 2000 column and a...[Read More](#)

High-performance liquid chromatography of diastereomeric flavanone glycosides in Citrus on a γ-cyclodextrin-bonded stationary phase (Cyclobond I) Krause, Martin; Galensa, Rudolf Journal of Chromatography A 588 (1-2), 41-45, (1991)

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Separation of chiral furan derivatives by liquid chromatography using cyclodextrin-based chiral stationary phases.

Xinxin Han et. al

Journal of chromatography. A, 1063(1-2), undefined (2005-2-11)

The enantiomeric separation of a set of 30 new chiral furan derivatives has been achieved on native and derivatized beta-cyclodextrin stationary phases using high performance liquid chromatography (HPLC). The hydroxypropyl-beta-cyclodextrin (Cyclobon...[Read More](#)

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Separation of stereoisomers of sertraline and its related enantiomeric impurities on a dimethylated beta-cyclodextrin stationary phase by HPLC.

R Nageswara Rao et. al

Journal of pharmaceutical and biomedical analysis, 50(3), undefined (2009-6-9)

A reversed-phase high-performance liquid chromatographic (HPLC) method was developed and validated for evaluating the chiral discrimination ability of CYCLOBOND I 2000 DM chiral stationary phase (CSP) towards sertraline and its related enantiomers. T...[Read More](#)

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Screening approach, optimisation and scale-up for chiral liquid chromatography of cathinones.

R Wimal H Perera et. al

Journal of chromatography. A, 1269, undefined (2012-11-24)

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Assessment of chiral stationary phases for suitability for combined enantiomeric impurity/related substances assays.

R Wimal H Perera and W John Lough

Journal of chromatography. A, 1218(48), undefined (2011-11-2)

Chiral stationary phases (CSP) for LC had a major impact on pharmaceutical R&D when they first became commercially available in the 1980s. Even although the use of CSP in pharmaceutical R&D is now very much a mature area, there is still scope for usi...[Read More](#)

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Separation of oxazepam, lorazepam, and temazepam enantiomers by HPLC on a derivatized cyclodextrin-bonded phase: application to the determination of oxazepam in plasma.

Chuong Pham-Huy et. al

Journal of biochemical and biophysical methods, 54(1-3), undefined (2003-1-25)

The enantioselective high-performance liquid chromatography (HPLC) of three racemic 3-hydroxybenzodiazepines, oxazepam (Oxa), lorazepam (Lor), and temazepam (Tem), is a difficult operation because of the spontaneous chiral inversion in polar solvent....[Read More](#)

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Chiral stationary phases in HPLC for the stereoselective determination of methadone.

S Rudaz and J L Veuthey

Chirality, 11(4), undefined (1999-5-29)

An extensive study of the behavior of three chiral stationary phases (CSP) is presented for the stereoselective determination of methadone. The following chromatographic columns were selected: a cellulose, Chiralcel OJ; a modified cyclodextrin. Cyclo...[Read More](#)

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High-performance liquid chromatographic enantioseparation of bicyclic 1,3-amino alcohols.

A Péter et. al

Journal of chromatography. A, 919(1), undefined (2001-7-19)

Different high-performance liquid chromatographic methods were developed for the separation and identification of enantiomers of diendo- and diexo-3-aminobicyclo[2.2.1]heptane-2-methanol and diendo- and diexo-3-amino-bicyclo[2.2.1]hept-5-ene-2-methan...[Read More](#)

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Enantiomeric separations of illicit drugs and controlled substances using cyclofructan-based (LARIHC) and cyclobond I 2000 RSP HPLC chiral stationary phases.

Nilusha L T Padivitage et. al

Drug testing and analysis, 6(6), undefined (2013-10-12)

Recently a novel class of chiral stationary phases (CSPs) based on cyclofructan (CF) has been developed. Cyclofructans are cyclic oligosaccharides that possess a crown ether core and pendent fructofuranose moieties. Herein, we evaluate the applicabil...[Read More](#)
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