

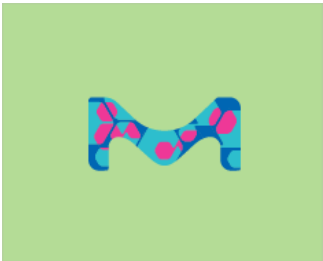


12010AST Supelco

Astec® CHIROBIOTIC® T Chiral HPLC Column

5 µm particle size, L × I.D. 10 cm × 3 mm

eCl@ss 32110501



FDS

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Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
12010AST	Expédition estimée le 24.09.18	1,739.00	0

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Propriétés

Related Categories	Analytical/Chromatography , Astec CHIROBIOTIC Chiral HPLC Columns (Macrocyclic Glycopeptides) , Astec CHIROBIOTIC T Chiral HPLC Columns , CHIROBIOTIC T, Chiral HPLC Columns , HPLC Less...
description	HPLC column
packaging	pkg of 1 ea
application(s)	HPLC: suitable
L × I.D.	10 cm × 3 mm
matrix	High-purity silica gel particle platform
matrix active group	teicoplanin glycopeptide phase
particle size	5 µm
pore size	100 Å
operating pH range	3.8 - 6.8
suitability	suitable for L63 per USP
mode of chromatography	chiral

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Description

General description

CHIROBIOTIC® T and T2 have teicoplanin as the chiral selector. They offer unique selectivity for a number of classes of molecules, specifically underivatized α, β, γ and cyclic amino acids, N-derivatized amino acids, hydroxy-carboxylic acids, acidic compounds including carboxylic acids and phenols, small peptides, neutral aromatic analytes and cyclic aromatic and aliphatic amines. Separations normally obtained on a chiral crown ether or ligand exchange-type CSPs are also possible on the CHIROBIOTIC® T and T2, but in much simpler mobile phases, like water-alcohol. In addition, all of the known beta-blockers (amino alcohols), and dihydrocoumarins have been resolved. CHIROBIOTIC® T and T2 differ in their bonding chemistry and the pore size of the support particle, giving them different selectivity and preparative capacity.

- Bonded phase: Teicoplanin
- Operating pH range: 3.8 - 6.8
- Particle diameter: 5, 10 or 16 µm
- Pore size: 100 Å (CHIROBIOTIC® T) or 200 Å (CHIROBIOTIC® T2)

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Legal Information
Astec is a registered trademark of Sigma-Aldrich Co. LLC
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Informations Sécurité

Aucune information relative à la sécurité de ce produit est actuellement disponible.

Documents

Certificat d'Analyse

7654

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High-performance liquid chromatographic enantioseparation of monoterpene-based 2-amino carboxylic acids on macrocyclic glycopeptide-based phases.
László Sipos et. al
Journal of chromatography. A, 1217(44), undefined (2010-9-25)
The enantiomers of five monoterpene-based 2-amino carboxylic acids were directly separated on chiral stationary phases containing macrocyclic glycopeptide antibiotics such as teicoplanin (Astec Chirobiotic T and T2) and teicoplanin aglycone (Chirobio...[Read More](#)
Enantiomeric impurities in chiral catalysts, auxiliaries, and synthons used in enantioselective syntheses. Part 4 Qui, Haiziao, et al. Tetrahedron Asymmetry 24 (18), 1134-1141, (2013)

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Chiral speciation of selenoamino acids in biological samples.
Beibei Chen et. al
Journal of chromatography. A, 1363, undefined (2014-8-19)
In this paper, the "state of the art" of chiral speciation of selenoamino acids (SeAAs) in biological samples is critically reviewed. The significance and the features of such studies are highlighted. A special focus lies on chiral speciation of SeAA...[Read More](#)

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High-performance liquid chromatographic enantioseparation of unusual isoxazoline-fused 2-aminocyclopentanecarboxylic acids on macrocyclic glycopeptide-based chiral stationary phases.
László Sipos et. al
Journal of chromatography. A, 1232, undefined (2011-12-20)
The enantiomers of four unusual isoxazoline-fused 2-aminocyclopentanecarboxylic acids were directly separated on chiral stationary phases containing macrocyclic glycopeptide antibiotics teicoplanin (Astec Chirobiotic T and T2), teicoplanin aglycone (...[Read More](#)

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Chiral separation of thiazide diuretics by HPLC on Chiralcel OD-RH, Chiralcel OJ-R and Chirobiotic-T phases.
Balázs Visegrády et. al
Journal of biochemical and biophysical methods, 53(1-3), undefined (2002-10-31)



This contribution deals with comparative studies on the chiral separation of thiazide diuretics using cellulose tris(3,5-dimethylphenylcarbamate) (Chiralcel OD-RH), cellulose tris(4-methylbenzoate) (Chiralcel OJ-R) and teicoplanin (Chirobiotic T) pha...[Read More](#)

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High-performance liquid chromatographic enantioseparation of 2-aminomono- and dihydroxycyclopentanecarboxylic and 2-aminodihydroxycyclohexanecarboxylic acids on macrocyclic glycopeptide-based phases.

Róbert Berkecz et. al

Journal of chromatography. A, 1216(6), undefined (2008-12-27)

The direct separation of the enantiomers of four 2-aminomono- or dihydroxycyclopentanecarboxylic acids and four 2-aminodihydroxycyclohexanecarboxylic acids was performed on chiral stationary phases containing macrocyclic glycopeptide antibiotics such...[Read More](#)

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Development and validation of a sensitive LC-MS/MS method for the determination of fenoterol in human plasma and urine samples.

M Sanghvi et. al

Journal of pharmaceutical and biomedical analysis, 933, undefined (2013-7-23)

Due to the lack of sensitivity in current methods for the determination of fenoterol (Fen), a rapid LC-MS/MS method was developed for the determination of (R,R')-Fen and (R,R';S,S')-Fen in plasma and urine. The method was fully validated and was line...[Read More](#)

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Natural terpene derivatives as new structural task-specific ionic liquids to enhance the enantioselective recognition of acidic enantiomers on teicoplanin-based stationary phase by high-performance liquid chromatography.

Jolanta Flieger et. al

Journal of separation science, 40(11), undefined (2017-4-21)

We present the specific cooperative effect of a semisynthetic glycopeptide antibiotic teicoplanin and chiral ionic liquids containing the (1R,2S,5R)-(-)-menthol moiety on the chiral recognition of enantiomers of mandelic acid, vanilmandelic acid, and...[Read More](#)

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Methotrexate determination in pharmaceuticals by enantioselective HPLC.

D Abd el-Hady et. al

Journal of pharmaceutical and biomedical analysis, 37(5), undefined (2005-5-3)

A simple, sensitive and selective high performance liquid chromatographic method with UV detection for the chiral separation of racemic methotrexate (rac-Mtx) and enantiomeric purity of L-methotrexate in pharmaceutical formulations was developed and ...[Read More](#)

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Enantioselective determination of 3-n-butylphthalide (NBP) in human plasma by liquid chromatography on a teicoplanin-based chiral column coupled with tandem mass spectrometry.

Xingxing Diao et. al

Journal of chromatography. B, Analytical technologies in the biomedical and life sciences, 939, undefined (2013-10-10)

A novel and sensitive liquid chromatography-tandem mass spectrometry (LC-MS/MS) method was developed and validated to determine the exposure of 3-n-butylphthalide (NBP) enantiomers in human plasma. The NBP enantiomers were extracted from human plasma...[Read More](#)

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Analysis of the band profiles of the enantiomers of phenylglycine in liquid chromatography on bonded teicoplanin columns using the stochastic theory of chromatography.

P Jander et. al

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

The retention behaviour of the enantiomers of underivatized phenylglycine was studied on a Chirobiotic T column packed with amphoteric glycopeptide teicoplanin covalently bonded to the surface of silica gel. The retention and the selectivity of separ...[Read More](#)

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Effect on separation of injecting samples in a solvent different from the mobile phase.

Knut Geddicke et. al

Journal of chromatography. A, 1162(1), undefined (2007-3-3)

The separation of compounds possessing low solubility in the mobile phase could be improved by applying stronger solvents for dissolving the feed. A model system has been investigated with ethanol-water as the mobile phase, Chirobiotic T as the stati...[Read More](#)

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Design and synthesis of a library of tertiary amides: evaluation as mimetics of the melanocortins' active core.

Felix Mutulis et. al

Bioorganic & medicinal chemistry, 15(17), undefined (2007-7-10)

Two hundred and ten tertiary amides were prepared on solid phase. Diamines were coupled to activated carboxylated Wang polymer, and the polymeric substituted benzyloxycarbonyl protected diamines obtained were reacted with aldehydes or ketones in trim...[Read More](#)

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Effects of a strongly adsorbed additive on process performance in chiral preparative chromatography.

P Forssén et. al

Journal of chromatography. A, 1212(1-2), undefined (2008-10-31)

The shapes of elution profiles are often significantly influenced by the presence of strongly adsorbed additives in the mobile phase. This aspect needs to be considered in quantitative optimization of preparative chromatography. The theoretical study...[Read More](#)

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Development and validation of a stereoselective liquid chromatography-tandem mass spectrometry assay for quantification of S- and R-metoprolol in human plasma.

Berit P Jensen et. al

Journal of chromatography. B, Analytical technologies in the biomedical and life sciences, 865(1-2), undefined (2008-3-7)

A stereoselective liquid chromatography-tandem mass spectrometry assay was developed and validated for quantification of S- and R-metoprolol at concentrations of 0.5-50 microg/L in human plasma. Metoprolol was extracted from plasma by liquid-liquid e...[Read More](#)

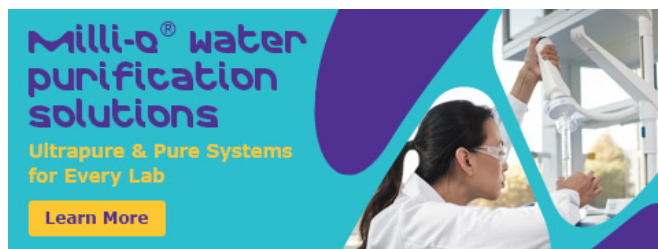
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