

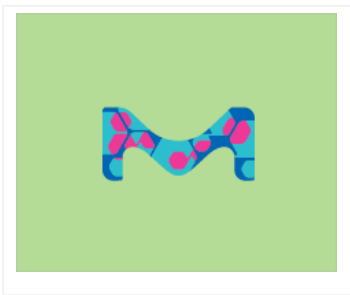


15018AST Supelco

Astec® CHIROBIOTIC® V2 Chiral HPLC Column

5 µm particle size, L × I.D. 10 cm × 2.1 mm

eCl@ss 32110501



FDS

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description	HPLC column
packaging	pkg of 1 ea
application(s)	HPLC: suitable
L × I.D.	10 cm × 2.1 mm
matrix	High-purity silica gel particle platform
matrix active group	vancomycin phase
particle size	5 µm
pore size	200 Å
operating pH range	3.5 - 7.0
mode of chromatography	chiral

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Description

General description

Neutral molecules, amides, acids, esters and amines show considerable enantioselectivity on these vancomycin-based CSPs. A wide variety of secondary and tertiary amines have been separated on the CHIROBIOTIC® V in the polar ionic mode. The CHIROBIOTIC® V has demonstrated many of the separation characteristics of protein-based stationary phases, but with exceptional stability and much higher sample capacity. Some chiral analytes have been resolved that have not been reported separated on any other chiral stationary phase. CHIROBIOTIC® V and V2 differ in their bonding chemistry the pore size of the support particle, giving them different selectivity and preparative capacity.

- Bonded phase: Vancomycin
- Operating pH range: 3.5 - 7.0
- Particle diameter: 5, 10 or 16 µm
- Pore size: 100 Å (CHIROBIOTIC® V) or 200 Å (CHIROBIOTIC® V2)

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

Certificat d'Analyse

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Protocoles et articles

Articles

- Fast LC-MS on Astec CHIROBIOTIC CSPs

Astec CHIROBIOTIC® chiral stationary phases (CSPs) offer several different types of molecular interactions, and separate enantiomers of many analyte classes. Of particular interest are ionic interactions. Craig Aurand Reporter US Volume 27.2 Keywords: High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Phase transitions, Separation
- HPLC Analysis of Fluoxetine Enantiomers on Narrowbore Astec® CHIROBIOTIC® V2

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Fluoxetine Enantiomers on Narrowbore Astec® CHIROBIOTIC® V2 Keywords: Anti-depressants, Chromatography, High performance liquid chromatography, Pharmaceutical

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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) [read abstract](#)

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](#)) [read abstract](#)

New high-performance liquid chromatography method for the determination of (R)-warfarin and (S)-warfarin using chiral separation on a glycopeptide-based stationary phase. Jana Malakova et. al Journal of chromatography. B, Analytical technologies in the biomedical and life sciences, 877(27), undefined (2009-8-1) Warfarin is a well-known anticoagulant agent that occurs in two enantiomers, (R)-(+)-warfarin and (S)-(-)-warfarin. A new liquid chromatography method for the determination of both enantiomers was developed, validated and applied in vitro studies ...[Read More](#)

Chiral liquid chromatography/tandem mass spectrometry assay to determine that dexpropimexole is not converted to propimexole in vivo after administered in humans Wei, Dong, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 971, 133-140, (2014)
New chemo-enzymatic approaches for the synthesis of (R)- and (S)-bupropion Nagay, Botond, et al. Tetrahedron Asymmetry 25 (18-19), 1316-1322, (2014)

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Development and validation of an UPLC-MS/MS method for enantioselectivity determination of d,l-threo-methylphenidate, d,l-threo-ethylphenidate and d,l-threo-ritalinic acid in rat plasma and its application to pharmacokinetic study.

Chenghao Zhang et. al

Journal of chromatography. B, Analytical technologies in the biomedical and life sciences, 1011, undefined (2016-1-12)

A chiral UPLC-MS/MS method was established and validated for quantifying d-threo-methylphenidate (d-threo-MPH), l-threo-methylphenidate (l-threo-MPH), d-threo-ethylphenidate (d-threo-EPH), l-threo-ethylphenidate (l-threo-EPH) and d,l-threo-ritalinic ...[Read More](#)

Enantioselective and sensitive determination of carvedilol in human plasma using chiral stationary-phase column and reverse-phase liquid chromatography with tandem mass spectrometry Jiang, Juanjuan, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 960, 92-97, (2014)

Validation of a chiral liquid chromatography/tandem mass spectrometry method for the determination of pantoprazole in dog plasma Chen, Meixia, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 906, 85-90, (2012)

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Development, optimization and validation of a sub-minute analytical enantioselective high performance liquid chromatographic separation for a folic acid precursor in normal phase mode.

Doris Frühauf and Markus Juza

Journal of chromatography. A, 1269, undefined (2012-10-30)

A sub-minute enantioselective normal phase high performance liquid chromatographic (HPLC) method for the analysis of a chiral precursor molecule employed frequently in folic acid syntheses was

developed, optimized and successfully validated according...[Read More](#)

Enantiospecific determination of dl-methylphenidate and dl-ethylphenidate in plasma by liquid chromatography/tandem mass spectrometry: Application to human ethanol interactions Zhu, Hao-Jie, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 879 (11-12), 783-788, (2011)

Chiral derivatives of Butenafine and Terbinafine: synthesis and antifungal activity Fuglseth, Erik, et al. Tetrahedron 65 (47), 9807-9813, (2009)

Enantioselective determination of doxazosin in human plasma by liquid chromatography/tandem mass spectrometry using ovomucoid chiral stationary phase Liu, Ke, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 878 (26), 2415-2420, (2010)

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Quantitative determination of ondansetron in human plasma by enantioselective liquid chromatography-tandem mass spectrometry Liu, Ke, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 864 (1-2), 129-136, (2008)

Direct and indirect separations of five isomers of Brivanib Alaninate using chiral high-performance liquid chromatography He, Brian Lingfeng, et al. Journal of Chromatography. B, Biomedical Sciences and Applications 875 (1), 122-135, (2008)

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