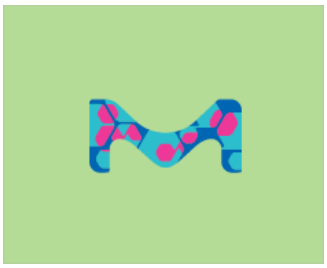
SIGMA-ALDRICH

15023AST Supelco

Astec® CHIROBIOTIC® V2 Chiral HPLC Column

5 µm particle size, L × I.D. 15 cm × 4.6 mm

eCl@ss 32110501



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Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
15023AST	**Seulement 3 en stock (d'autres en cours d'arrivage)** - A PARTIR DE	1,984.00	0

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Propriétés

Related Categories	Analytical/Chromatography, Astec CHIROBIOTIC Chiral HPLC Columns (Macrocyclic Glycopeptides), Astec CHIROBIOTIC V2 Chiral HPLC Columns, CHIROBIOTIC V2, Chiral HPLC Columns, HPLC Less...
description	**HPLC column**
packaging	**pkg of 1 ea**
application(s)	**HPLC: suitable**
L × I.D.	**15 cm × 4.6 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**

montrer moins de résultats

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)

CHIROBIOTIC FAQs
CHIROBIOTIC Reference Bibliography
Chiral Product Literature

Recommended products
Discover LiChropur reagents ideal for **HPLC** or **LC-MS** analysis

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

CHIROBIOTIC is a registered trademark of Sigma-Aldrich Co. LLC

Informations Sécurité

Documents

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

Certificat d'Analyse

894316

Devis/ Commande de produits Bulk FDS

Customers Also Viewed

15100AST
Astec® CHIROBIOTIC® V2 Chiral HPLC Guard Column
Cartridge, 5 µm particle size, L × I.D. 2 cm × 4 mm

15024AST
Astec® CHIROBIOTIC® V2 Chiral HPLC Column
5 µm particle size, L × I.D. 25 cm × 4.6 mm

12023AST
Astec® CHIROBIOTIC® T Chiral HPLC Column
5 µm particle size, L × I.D. 15 cm × 4.6 mm

11023AST
Astec® CHIROBIOTIC® V Chiral HPLC Column
5 µm particle size, L × I.D. 15 cm × 4.6 mm

21150AST
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Stand-Alone (Swivel-type), for use with Supelguard cartridges (2 cm L. x 2 to 4.6 mm I.D.)

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

15020AST
Astec® CHIROBIOTIC® V2 Chiral HPLC Column
5 µm particle size, L × I.D. 25 cm × 2.1 mm

15019AST
Astec® CHIROBIOTIC® V2 Chiral HPLC Column
5 µm particle size, L × I.D. 15 cm × 2.1 mm

15018AST
Astec® CHIROBIOTIC® V2 Chiral HPLC Column
5 µm particle size, L × I.D. 10 cm × 2.1 mm

Protocoles et articles

Articles

Accurate Biological Testing for Amphetamine and Methamphetamine Abuse Using Chiral HPLC and MS Detection
In this study, optimized methods are presented for sample preparation and chiral chromatography for the LC/MS analysis of amphetamine and methamphetamine enantiomers in urine.
Keywords: Asymmetric synthesis, Chiral chromatography, Chromatography, Clinical, Derivatizations, Forensic, Gas chromatography, High performance liquid chromatography, Immunoassay, Industries, Mass spectrometry, Metabolites, Phase transitions, Sample preparations, Separation, Solid phase extractions

Accurate Biological Testing for Amphetamine and Methamphetamine Abuse using Chiral HPLC and MS Detection
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Keywords: Asymmetric synthesis, Chiral chromatography, Chromatography, Clinical, Derivatizations, Forensic, Gas chromatography, High performance liquid chromatography, Immunoassay, Mass spectrometry, Metabolites, Parkinson Disease, Phase transitions, Sample preparations, Separation, Solid phase extractions

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 interact...
Craig Aurand
Reporter US Volume 27.2
Keywords: High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Phase transitions, Separation

HPLC Analysis of 3',4'-Methylenedioxy-α-pyrrolidinobutiophenone (MDPBP) Enantiomers on Astec® CHIROBIOTIC® V2
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Keywords: Chromatography, High performance liquid chromatography

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HPLC Analysis of 3,4-Methylenedioxypyrovalerone (MDPV) Enantiomers on Astec® CHIROBIOTIC® V2
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Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of Ritalinic Acid and Ritalin (Methylphenidate) Enantiomers on Astec® CHIROBIOTIC® V2 with T2 Guard Column
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Keywords: Chromatography, Clinical, Forensic, High performance liquid chromatography, Pharmaceutical

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Keywords: Chromatography, High performance liquid chromatography

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Keywords: Chromatography, High performance liquid chromatography

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Keywords: Chromatography, High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Sample preparations, Separation, Solid phase extractions, Solvents

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Keywords: Chromatography, High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Solvents

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Keywords: High performance liquid chromatography

Documentation référencée

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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

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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 in vitro studies ...Read More
Chiral liquid chromatography?tandem mass spectrometry assay to determine that dexpramipexole is not converted to pramipexole 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)-bufuralol Nagy, Botond, et al. Tetrahedron Asymmetry 25 (18-19), 1316-1322, (2014)

read abstract

Development and validation of an UFLC-MS/MS method for enantioselectivity determination of d,l-thero-methylphenidate, d,l-thero-ethylphenidate and d,l-thero-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 UFLC-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)

read abstract

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)
Enantioenriched 1-aryl-2-fluoroethylamines. Efficient lipase-catalysed resolution and limitations to the Mitsunobu inversion protocol Thvedt, Thor H?kon Krane, et al. Tetrahedron 66 (34), 6733-6743, (2010)
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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