

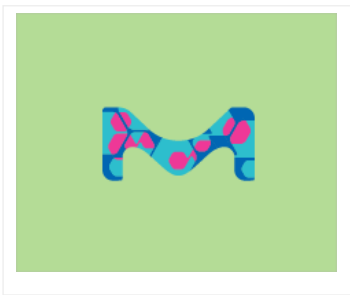


13024AST Supelco

Astec® CHIROBIOTIC® R Chiral HPLC Column

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

eCl@ss 32110501



[FDS](#)[Similar Products](#)

Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
13024AST	Seulement 2 en stock (d'autres en cours d'arrivage) - A PARTIR DE	3,825.00	0

[Commandes Bulk?](#)[AJOUTER AU PANIER](#)

Propriétés

Related Categories	Analytical/Chromatography , Astec CHIROBIOTIC Chiral HPLC Columns (Macrocyclic Glycopeptides) , Astec CHIROBIOTIC R Chiral HPLC Columns , CHIROBIOTIC R, Chiral HPLC Columns , HPLC Less...
description	HPLC column
packaging	pkg of 1 ea
application(s)	HPLC: suitable
L × I.D.	25 cm × 4.6 mm
matrix	high-purity silica gel particle platform
matrix active group	ristocetin A glycopeptide phase
particle size	5 µm
pore size	100 Å
operating pH range	3.5 - 6.8
mode of chromatography	chiral

[montrer moins de résultats](#)

Description

General description

CHIROBIOTIC® R, based on the ristocetin A glycopeptide covalently bonded to high purity silica particles, has shown particular applicability to enantiomers of anionic compounds. Selectivity on CHIROBIOTIC® R strongly correlates to the organic modifier, favoring the alcohol-type mobile phases by a large margin.

- Bonded phase: Ristocetin A
- Operating pH range: 3.5 - 6.8
- Particle diameter: 5, 10 or 16 µm
- Pore size: 100 Å

[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

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

Documents

Certificat d'Analyse

061026

Devis/ Commande de produits Bulk FDS

Customers Also Viewed

10305AST Astec® CHIROBIOTIC® HPLC Column Screening Kit 5 µm particle size, L × I.D. 25 cm × 4.6 mm	14024AST Astec® CHIROBIOTIC® TAG Chiral HPLC Column 5 µm particle size, L × I.D. 25 cm × 4.6 mm	15024AST Astec® CHIROBIOTIC® V2 Chiral HPLC Column 5 µm particle size, L × I.D. 25 cm × 4.6 mm	16024AST Astec® CHIROBIOTIC® T2 Chiral HPLC Column 5 µm particle size, L × I.D. 25 cm × 4.6 mm	11024AST Astec® CHIROBIOTIC® V Chiral HPLC Column 5 µm particle size, L × I.D. 25 cm × 4.6 mm
---	--	---	---	--

Recently Viewed

13023AST Astec® CHIROBIOTIC® R Chiral HPLC Column 5 µm particle size, L × I.D. 15 cm × 4.6 mm	13022AST Astec® CHIROBIOTIC® R Chiral HPLC Column 5 µm particle size, L × I.D. 10 cm × 4.6 mm	13020AST Astec® CHIROBIOTIC® R Chiral HPLC Column 5 µm particle size, L × I.D. 25 cm × 2.1 mm	13019AST Astec® CHIROBIOTIC® R Chiral HPLC Column 5 µm particle size, L × I.D. 15 cm × 2.1 mm	12101AST Astec® CHIROBIOTIC® T Chiral HPLC Guard Column Column, 5 µm particle size, L × I.D. 2 cm × 1 mm
--	--	--	--	---

Protocoles et articles

Articles

Chiral LC-MS/MS of D- and L-2-Hydroxyglutaric Acid Biomarkers

Chiral 2-hydroxyglutarates (2-OHG) are important molecular signatures of their specific biochemical pathways and inborn errors of metabolism, for both healthy and diseased biological cells. For example, Roland Wöhlgemuth, Rudolf Köhling, Hugh Cramer Reporter Volume 31.3
Keywords: Asymmetric synthesis, Cancer, Citric Acid Cycle, High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Metabolism, Metabolites, Phase transitions, Reductions, Separation

Determination of L- and D-Lactic Acid Enantiomers by HPLC/MS/MS

The following was generated with the assistance of an outside source using Sigma-Aldrich products. Technical content was generated and provided by: H. Henry1, N. Marmy Conus2, P. Steenhout2, A. Bengu...
Keywords: Chiral chromatography, Chromatography, Clinical, Clinical Chemistry, Diseases, High performance liquid chromatography, Liquid chromatography mass spectrometry, Mass spectrometry, Metabolic Pathways, Purification, Separation

HPLC Analysis of 2,3-Dihydroxy-3-Phenylpropionic Acid Enantiomers on CHIROBIOTIC R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of 2,3-Dihydroxy-3-Phenylpropionic Acid Enantiomers on CHIROBIOTIC R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of 2-Bromo-3-Methylbutyric Acid Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of 2-Bromo-3-Methylbutyric Acid Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of 3-Phenyllactic Acid Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of 3-Phenyllactic Acid Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of Alloisoleucine Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Alloisoleucine Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of Atrolactic Acid Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Atrolactic Acid Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of Dansyl-Glutamic Acid Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Dansyl-Glutamic Acid Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of Dansyl-Leucine Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Dansyl-Leucine Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography



HPLC Analysis of Dansyl-Methionine Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Dansyl-Methionine Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of Dansyl-Valine Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of Dansyl-Valine Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of FMOc-Arginine Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of FMOc-Arginine Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of FMOc-Aspartic Acid Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of FMOc-Aspartic Acid Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of FMOc-Lysine Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of FMOc-Lysine Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

HPLC Analysis of N-(1-Phenylethyl)maleimide Enantiomers on Astec® CHIROBIOTIC® R

From our library of Articles, Sigma-Aldrich presents HPLC Analysis of N-(1-Phenylethyl)maleimide Enantiomers on Astec® CHIROBIOTIC® R
Keywords: Chromatography, High performance liquid chromatography

Related Content

Supelco HPLC Calculator for Isocratic or Gradient Method Transfer

Calculates conditions for transfer of an isocratic or gradient method from one HPLC column to another. Allows method scaling from microbore through preparative column range. Calculates time and solve...
Keywords: High performance liquid chromatography

Documentation référencée

Did you use this product in your Paper? If so click here.

read abstract

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](#)
Enzyme-catalyzed synthesis of (R)- and (S)-3-hydroxy-3-(10-alkyl-10H-phenothiazin-3-yl)propanoic acids Brem, Jurgen, et al. Tetrahedron Asymmetry 21 (3), 365-373, (2010)
Enzyme-catalyzed synthesis of (R)- and (S)-3-heteroaryl-3-hydroxy-propanoic acids and their derivatives Brem, Jurgen, et al. Tetrahedron Asymmetry 20 (4), 489-496, (2009)

read abstract

Separation of the stereoisomers of the main metabolite of a non-steroidal anti-inflammatory drug, flobufen, by chiral high-performance liquid chromatography.

V Wsól et. al
Journal of chromatography. B, Biomedical sciences and applications, 689(1), undefined (1997-2-7)
The major metabolite of a novel non-steroidal anti-inflammatory drug, DL-4-(2',4'-difluorobiphenyl-4-yl)-2-oxo-2-methylbutanoic acid (flobufen, I), namely 4-(2',4'-difluorobiphenyl-4-yl)-2-methyl-gamma-butyrolactone (4-dihydroflobufen lactone, III), ...[Read More](#)

read abstract

High-performance liquid chromatographic enantioseparation of beta-amino acids.

A Péter et. al
Journal of chromatography. A, 926(2), undefined (2001-9-15)
Direct and indirect high-performance liquid chromatographic methods were developed for the enantioseparation of beta-amino acids (beta-substituted-beta-alanines). Direct separation involved the application of chiral columns: Crownpak CR(+), Chirobiot...[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](#)

read abstract

Interlaboratory study of a liquid chromatography method for erythromycin: determination of uncertainty.

P Dehouck et. al
Journal of chromatography. A, 1010(1), undefined (2003-9-25)
Erythromycin is a mixture of macrolide antibiotics produced by Saccharopolyspora erythraea during fermentation. A new method for the analysis of erythromycin by liquid chromatography has previously been developed. It makes use of an Astec C18 polymer...[Read More](#)

read abstract

Radiotherapy in poor risk patients with stage I cancer of the endometrium: results of not giving external beam radiotherapy.

B DeCruze and D Guthrie
Clinical oncology (Royal College of Radiologists (Great Britain)), 11(4), undefined (1999-9-4)
Poor prognosis (poorly differentiated and/or deep myometrial invasion) Stage I endometrial cancer can have a relapse rate as high as 50%. Traditionally, most clinical oncologists treat these patients with external beam radiotherapy after surgery but ...[Read More](#)

read abstract

Enantioselective high-performance liquid chromatographic separation of N-methyloxycarbonyl unsaturated amino acids on macrocyclic glycopeptide stationary phases.

J M M Boesten et. al
Journal of chromatography. A, 1108(1), undefined (2006-1-31)
This paper describes the enantiomeric resolution of a series of unsaturated N-methyloxycarbonyl-alpha-H-alpha-amino acids (N-MOC-alpha-amino acids) on macrocyclic glycopeptide stationary phases by means of high-performance liquid chromatography (HPLC)...[Read More](#)

read abstract

Theoretical study of the gas-phase reactions of iodine atoms ((2)P(3/2)) with H(2), H(2)O, HI, and OH.

Sébastien Canneaux et. al
The journal of physical chemistry. A, 114(34), undefined (2010-8-3)
The rate constants of the reactions of iodine atoms with H(2), H(2)O, HI, and OH have been estimated using 39, 21, 13, and 39 different levels of theory, respectively, and have been compared to the available literature values over the temperature ran...[Read More](#)

read abstract

Validation and Application of a Simple UHPLC-MS-MS Method for the Enantiospecific Determination of Warfarin in Human Urine.

Osama Y Alshogran et. al

Journal of chromatographic science, 54(4), undefined (2015-12-15)

A simple and rapid liquid chromatographic-tandem mass spectrometric method has been developed and validated for the enantiospecific determination of R- and S-warfarin in human urine. Warfarin enantiomers were extracted from urine using methyl tert-butyl ether. [Read More](#)

[read abstract](#)

Transforming chiral liquid chromatography methodologies into more sensitive liquid chromatography-electrospray ionization mass spectrometry without losing enantioselectivity.

Meera J Desai and Daniel W Armstrong

Journal of chromatography. A, 1035(2), undefined (2004-5-6)

LC-electrospray ionization (ESI) MS conditions were optimized for the individual chiral separation of 19 compounds of pharmaceutical interest using the macrocyclic glycopeptide-based chiral stationary phases in both polar organic and reversed-phase modes. [Read More](#)

[read abstract](#)

Study on the determination and chiral inversion of R-salbutamol in human plasma and urine by liquid chromatography-tandem mass spectrometry.

Ting Zhou et. al

Journal of chromatography. B, Analytical technologies in the biomedical and life sciences, 1002, undefined (2015-9-6)

The chiral inversion has been a concerned issue during the research and development of a chiral drug. In this study, a sensitive chiral liquid chromatography-tandem mass spectrometry (LC-MS/MS) method was developed for determination of salbutamol enantiomers. [Read More](#)

[read abstract](#)

Amphetamine concentrations in human urine following single-dose administration of the calcium antagonist prenylamine-studies using fluorescence polarization immunoassay (FPIA) and GC-MS.

Thomas Kraemer et. al

Journal of analytical toxicology, 27(2), undefined (2003-4-3)

Prenylamine (R,S-N-(3,3-diphenylpropyl-methyl-2-phenethylamine), a World Health Organization class V calcium antagonist, is known to be metabolized to amphetamine. In this study, amphetamine concentrations after a single-dose administration of prenylamine were determined. [Read More](#)

[read abstract](#)

Enantiomeric fraction evaluation of pharmaceuticals in environmental matrices by liquid chromatography-tandem mass spectrometry.

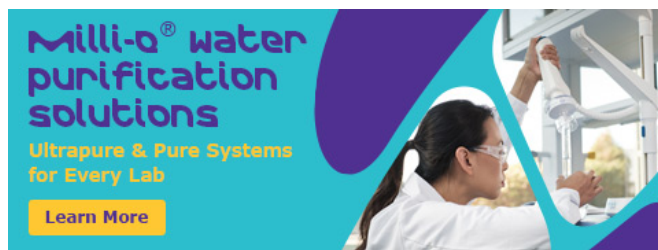
Ana Rita Ribeiro et. al

Journal of chromatography. A, 1363, undefined (2014-7-23)

The interest for environmental fate assessment of chiral pharmaceuticals is increasing and enantioselective analytical methods are mandatory. This study presents an enantioselective analytical method for the quantification of seven pairs of enantiomers. [Read More](#)

[Show more references \(11 remain\)](#)

Produits associés



© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved. Reproduction of any materials from the site is strictly forbidden without permission. Sigma-Aldrich Products are sold exclusively through Sigma-Aldrich, Inc. [Site Use Terms](#) | [Privacy](#)