

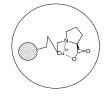


INSTRUCTION MANUAL FOR CHIRALPAK[®] WH Analytical column for: Free Amino Acid Amino Acid Derivatives Carboxylic Acid

Please read this instruction sheet completely before using this column

Column Description

Chemical composition: Amino acid chemically bonded to a 10µm silica-gel support.



Column size:

250mm L x 4.6mm i.d.

All columns have been pre-tested before packaging. Test parameters and results, as well as the Column Lot Number, are included on a separate (enclosed) page.

CAUTION

Some of the most popular buffer solutions and/or organic solvent remaining in your HPLC system may destroy this column.

Be careful not to connect the column to your HPLC system before the system is completely flushed with the appropriate eluent.

Do not use racemate of strong acid or base.

Operating Procedure

Typical mobile phase: 0.25mM CuSO₄ aq (up to 0.5mM)

Suitable mobile phase modifiers include CH₃CN and CH₃OH from 0 to 80% (v/v).

- Notes: Retention time is generally shorter with higher CuSO₄ concentration and/or higher column temperature.
 - High content of organic solvent may cause precipitation of CuSO₄ and clogging of the tubing.

Flow Direction:	As indicated by arrow on column label.
Flow Rate:	Typical flow rate is 1.0 ml/min. Maintain flow rate that will result in column pressures of less than 1400 psi. (100 kg/cm ²). DO NOT EXCEED 3.0 ml/min.
Temperature:	 0°C – 50°C. If your sample is a free amino acid, column temperature should be maintained more than 40°C.
Pressure:	1400 psi, MAXIMUM; less than 700 psi is recommended for maximum column life.

[@] Sample/eluent solution should be filtered through a 0.45 m membrane filter.

The use of a guard column is recommended for maximum column life.

Maintenance

- The mobile phase should be displaced with Storage Solvent (0.25mM CuSO₄ aq.) when stored more than a week.
- When washing is required, use 10mM CuSO₄ aq. + 10% MeOH at 0.3ml/min for 3 hours.

Important Notice

 \Rightarrow STRONGLY BASIC solvent modifiers or sample solutions MUST BE AVOIDED, because they are likely to damage the silica gel used in this column.

Operating this column in accordance with the guidelines outlined here will result in a long column life.

⇒ If you have any questions about the use of these columns, or encounter a problem, contact:

In the USA: <u>questions@chiraltech.com</u> or call 800-6-CHIRAL In the EU: <u>cte@chiral.fr</u> or call +33 (0)3 88 79 52 00 In India: <u>chiral@chiral.daicel.com</u> or call +91-40-2338-3700

Locations:

North/Latin America

Chiral Technologies. Inc. 800 North Five Points Road West Chester, PA 19380 800 6 CHIRAL Tel: 610-594-2100 Fax: 610-594-2325 chiral@chiraltech.com www.chiraltech.com **Europe** Chiral Technologies Europe Parc d'Innovation Bd Gonthier d'Andernach 67400 Illkirch Cedex, France Tel: +33-388-795-200 Fax: +33-388-667-166 cte@chiral.fr www.chiral.fr India Daicel Chiral Technologies (India) Pvt. Ltd. Lab No. 4A, Phase III IKP Knowledge Park Genome Valley, Turkapally, Shameerpet, Ranga Reddy Dist. Hyderabad-500 078, Telangana Tel: +91-40-2338-3700 Fax: +91-40-2348-0104 chiral@chiral.daicel.com

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