

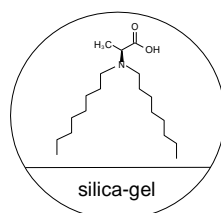
INSTRUCTION MANUAL FOR CHIRALPAK® MA(+)

Please read this instruction sheet completely before using this column

Column Description

Packing composition:

N,N-dioctyl-L-alanine
coated on **3µm silica-gel**.



Column size:

50mm L x 4.6mm i.d.

Shipping solvent:

The column is filled with 2mM CuSO₄ aq. solution.

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

This column contains an amino acid derivative coated on silica-gel as the packing material. The entire HPLC system including the injector and the injection loop must be flushed with a mobile phase compatible with the column and its storage solvent prior to connecting.

Do not use mobile phases other than those listed in this document.

Otherwise, the column may be damaged by dissolving the amino acid derivative.

Strong-basic compounds are likely to deteriorate the silica-gel used in this column.

Standard Analytical Conditions

Mobile phase	: 2mM CuSO ₄ aq. solution
Operating temperature	: 0 - 40°C
Column pressure	: Max. 150kg/cm ²
Flow rate	: 1.0mL/min
Flow direction	: As indicated on column label

Mobile Phases

Suitable mobile phases :	CuSO ₄ aq. solution	= 0.1 - 2.0mM
	CuSO ₄ aq. solution / methanol	= 100/0 - 85/15 (v/v)
	CuSO ₄ aq. solution / acetonitrile	= 100/0 - 85/15 (v/v)

NOTES:

- ⇒ Retention time is generally shorter with acetonitrile than with methanol and with a higher content of organic solvent.
- ⇒ Eluent solution should be filtered through a 0.45 mm membrane filter.
- ⇒ High content of organic solvent may cause precipitation of CuSO₄ which makes the tubing clogged.

Sample

The sample solution should be filtered through a 0.45 mm membrane filter as a rule.

Column Cleaning

If the column has been contaminated, wash the column with 15% acetonitrile in H₂O (v/v) at a flow rate of 0.5mL/min for 3 hours.

Storage

The column can be stored at room temperature.
When the column is not in use, it is recommended to fill it with a 2mM CuSO₄ aq. solution.

Important Notice

⇒ 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:

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