



Please read this instruction sheet completely before using this

INSTRUCTION MANUAL FOR CHIRALPAK® WH COLUMNS

column

CAUTION

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

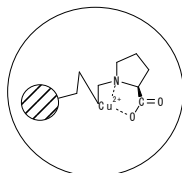
Be careful not to connect the column to your HPLC system before the system is completely flushed with the appropriate eluent.

Please read this instruction sheet completely before using this column.

Do not use racemate of strong acid or base.

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.

Column Name	Ref.	Product Type	Internal Diameter (mm)	Column Length (mm)
CHIRALPAK® WH 10µm	25622	Guard column	4.6	50
	25625	Analytical	4.6	250

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/cm²). 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 μm 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 :

- **STRONGLY BASIC COMPOUNDS MUST BE AVOIDED**, because they are likely to damage the silica gel used in this column.
- **This instruction is not applicable to any other DAICEL Columns.**
- **If you have questions** about the use of this column, or encounter problems in its use, please E-mail (chiral@jp.daicel.com) for assistance. Operation of this column in accordance with the guidelines outlined here will result in a long column life.

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DAICEL CORPORATION

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