Using CHIRAL-AGP and CHIRAL-CBH for LC/MS

The CHIRAL-AGP and the CHIRAL-CBH columns are unique tools for the separation of enantiomers. CHIRAL-AGP can be used for the separation of basic, acidic and nonprotolytic compounds. One reason for the extremely broad applicability is the possibility to induce and improve enantioselectivity by simple changes of the mobile phase composition.

CHIRAL-CBH can be used for the separation of basic analytes. Both columns are reversed phase columns and they can be used with volatile buffers like acetate and formate as demonstrated below.

CHIRAL-AGP and CHIRAL-CBH columns are available in many different dimensions. The dimensions most suited for LC/MS are listed on the opposite side.

Rapid chiral separations suitable for MS-detection

CHIRAL-AGP
50x4.0 mm
Mobile phase:
5% acetonitrile in 10 mM ammonium acetate buffer, pH 4.1

Desmethylsibutramine

CHIRAL-CBH
100x2.0 mm
Mobile phase:
6% acetonitrile in 10 mM ammonium acetate (pH 6.75) + 50 µM disodium EDTA

Amphetamine

CHIRAL-AGP
50x2.0 mm
Mobile phase:
15% acetonitrile in 10 mM ammonium acetate

Etodolac
**Proglumide**

CHIRAL-AGP 50x2.0 mm
Mobile phase:
9% acetonitrile in 10 mM ammonium acetate

**Pindolol**

CHIRAL-AGP 50x2.0 mm
Mobile phase:
7% acetonitrile in 10 mM ammonium acetate

**Cyamemazine**

CHIRAL-AGP 50x2.0 mm
Mobile phase:
4% acetonitrile in 10 mM ammonium acetate buffer pH 4.00

### CHIRAL-AGP and CHIRAL-CBH column dimensions suitable for LC/MS

<table>
<thead>
<tr>
<th>Art.no</th>
<th>Dimension</th>
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<tbody>
<tr>
<td>AGP50.4</td>
<td>50x4.0 mm</td>
<td>CBH50.4</td>
<td>50x4.0 mm</td>
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<tr>
<td>AGP50.3</td>
<td>50x3.0 mm</td>
<td>CBH50.3</td>
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Please note that other column dimensions are available which also can be used for LC/MS. Guard cartridges are available with ID 2, 3 or 4 mm. Length 10 mm. A holder is necessary.

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