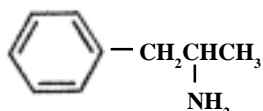


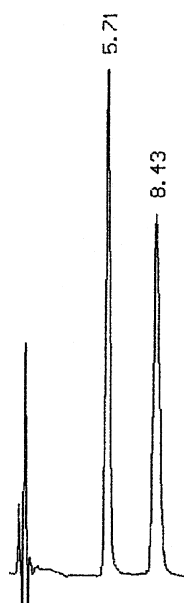
New "hot" applications

Every day many customers request advice on how to resolve different compounds. Sometimes it can be noted that a compound is very "hot", as many requests for the same compound are received during a period. Below are two examples of such compounds that seem to be very interesting at the moment, amphetamine and citalopram.

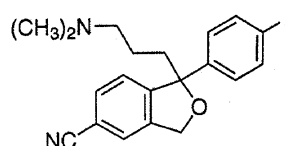
Amphetamine



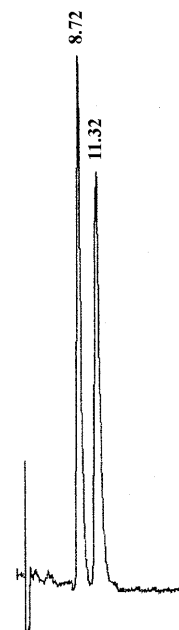
Column: **CHIRAL-CBH**
100x4.0 mm
+ CHIRAL-CBH
guard 10x4 mm
Mobile phase: 5% 2-propanol in 10
mM sodium phosphate buffer pH 7.00
+ 50 uM disodium EDTA
Flow: 0.8 ml/min
Detection: UV 210 nm



Citalopram



Column: **CHIRAL-AGP**
100x4.0 mm
+ CHIRAL-AGP
guard 10x4 mm
Mobile phase: 50 mM ammonium
acetate and 3 mM
TEA pH 5.0
Flow: 0.8 ml/min
Detection: UV 220 nm



CHIRAL-CBH

Mainly used for basic compounds or, more specific, compounds containing **one or more nitrogens** together with **one or more hydrogen accepting or hydrogen donating groups (alcohol, phenol, carbonyl, amide, ether, ester etc.)**. Probably the best column available for the resolution of amino alcohols.

However, it has recently been demonstrated that **CHIRAL-CBH** also can be used for the resolution of compounds **only containing a basic nitrogen** and no additional hydrogen bonding groups, as is exemplified above by amphetamine.

CHIRAL-AGP

A chiral column **with extremely broad applicability**. Most likely the column with the **broadest** applicability of all chiral columns available. Separates enantiomers of all types of compounds:

- Primary, secondary, and tertiary **amines** as well as quaternary ammonium compounds
- Strong (=carboxylic acids) and weak **acids**
- Amides, esters, alcohols, sulfoxides and other **non-protolytes**

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Which column to choose?

As can be seen **basic** compounds can be separated on both **CHIRAL-AGP** and **CHIRAL-CBH**.

However, as **CHIRAL-AGP** is a column with an extremely broad applicability, this column should be the first choice, if a similar compound has not been resolved on **CHIRAL-CBH**.

CHIRAL-CBH should be the first choice for very hydrophilic amines/amino alcohols.

If in any doubt on which column to choose, please contact support@chromtech.co.uk. Please also remember our **Free Screening Service**, where we will test the compound of interest on these columns.