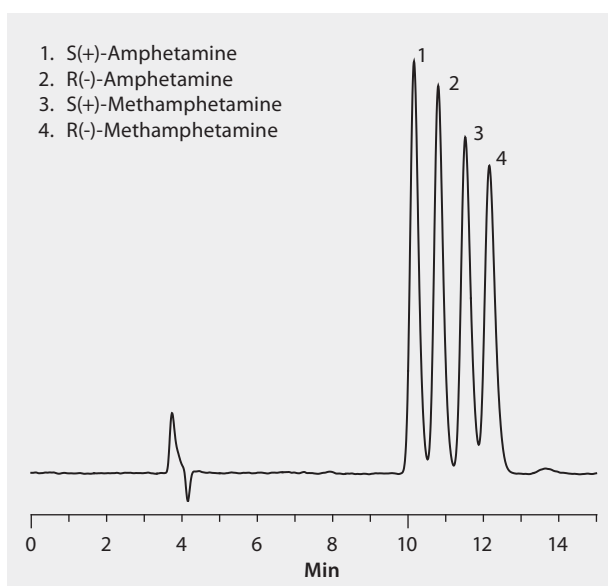


## HPLC Analysis of Amphetamine and Methamphetamine Enantiomers on Astec® CHIROBIOTIC® V2

Resolution of the enantiomers of methamphetamine and amphetamine is of clinical interest for two reasons: they exhibit different physiological effects, and it is a means to distinguish between legal and illicit sources of the drugs. Shown here is the rapid and efficient resolution of all four enantiomers on an Astec CHIROBIOTIC V2 column. LC/MS grade solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

market focus	Pharmaceutical (small molecule)
column	Astec CHIROBIOTIC V2, 25 cm x 4.6 mm I.D., 5 µm (15024AST)
mobile phase	[A] methanol; [B] water; [C] acetic acid; [D] ammonium hydroxide; (95:5:0.1:0.02, A:B:C:D)
flow rate	1 mL/min
pressure	840 psi (58 bar)
column temp.	40 °C
detector	UV, 205 nm
injection	5 µL
sample	100 µg/mL each enantiomer in methanol
Application No.	G1006443



### Related Products

#### analytical column

Astec® CHIROBIOTIC® V2 Chiral HPLC Column ([Supelco 15024AST](#))

#### mobile phase component

Acetic acid ([Fluka 49199](#))

Ammonium hydroxide solution ([Fluka 44273](#))

Methanol ([Fluka 14262](#))

Water ([Fluka 14263](#))

#### standard

(±)-Amphetamine solution ([Cerilliant A-007](#))

S(+)-Amphetamine (dextro-Amphetamine) solution ([Cerilliant A-008](#))

R(-)-Amphetamine (levo-Amphetamine) ([Cerilliant A-049](#))

(±)-Methamphetamine solution ([Cerilliant M-009](#))

R(-)-Methamphetamine solution ([Cerilliant M-024](#))

S(+)-Methamphetamine solution ([Cerilliant M-020](#))