LC Products

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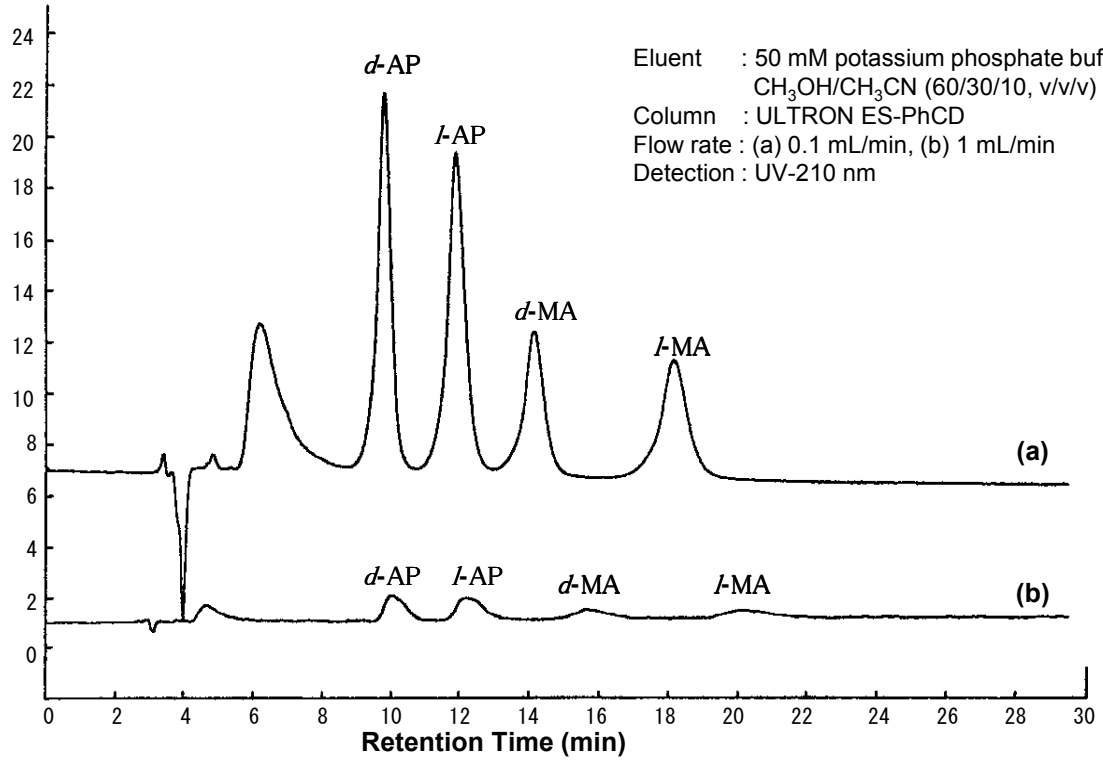
Semi-micro enantiomer separation column for LC/MS applications

ULTRON ES-PhCD

This column displays superior chiral recognition with respect to the stimulant drug methamphetamine (MA) and its metabolite amphetamine (AP) in human urine.



Comparison of sensitivity of MA and AP enantiomers using (a) a semi-micro column (150 x 2.0 mm I.D.) and (b) a general-purpose column (150 x 6.0 mm I.D.).

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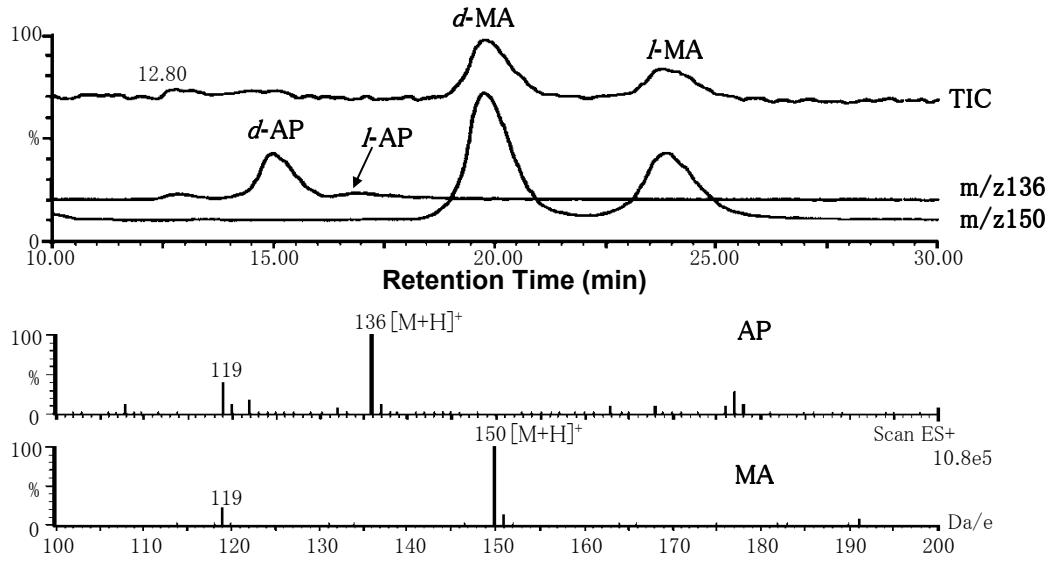
An analytical method consisting of a combination of ESI-MS and column switching employing semi-micro HPLC is an extremely effective method of performing analyses designed to identify methamphetamine and amphetamine.



Analysis of methamphetamine (MA) and amphetamine (AP) in urine using ESI-MS

Data kindly provided by the Forensic Science Laboratory,
Osaka Prefectural Police Headquarters

■ References

1. M. Katagi et al., Jpn. J. Toxicol, Environ. Health 44(2) (1998) 107.
2. M. Katagi et al., J.Chromatogr. B 676 (1996) 35.

■ Specifications

Product name	Particle size (μm)	Column dimensions Length × I.D. (mm)
ULTRON ES-CD	5	150 x 2.0
ULTRON ES-CD	5	150 x 6.0
ULTRON ES-CD.G	5	10 x 4.0
ULTRON ES-PhCD	5	150 x 2.0
ULTRON ES-PhCD-T	5	150 x 6.0
ULTRON ES-PhCD.G	5	10 x 4.0

Please be aware that specifications are subject to change without prior notification.