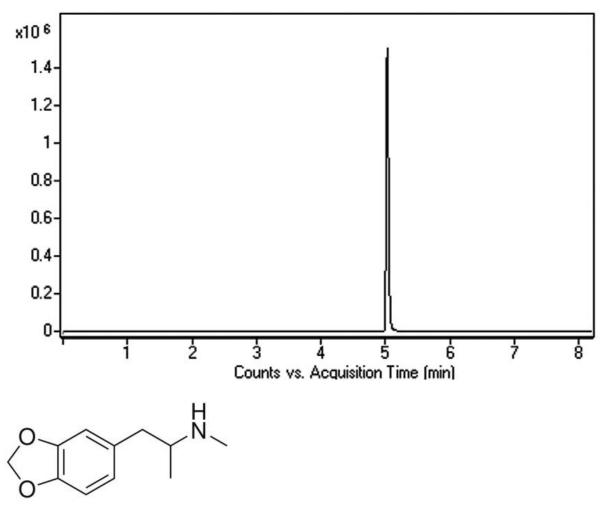
Methylenedioxymethamphetamine Analyzed with MS

Click *HERE* for Column Ordering Information.

Under the described conditions, MDMA was retained and eluted as a Symmetrical Peak. The Sensitivity of the Method is very good and comparable to that reported with GCMS Detection [1]. Matrix effects were of minor extent and reproducible and hence should not compromise Quantification. The Method can be used for Forensic Research and Clinical Analysis.



Peak:



Method Conditions

Column: Cogent Phenyl Hydride[™], 4µm, 100Å Catalog No.: 69020-05P-2 Dimensions: 2.1 x 50mm Mobile Phase: A: DI Water / 0.1% Formic Acid (v/v) B: Acetonitrile / 0.1% Formic Acid (v/v) Gradient:

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MICROSOLV

Time (minutes)	%B
0	10
1	10
6	90
7	10

Post Time: 3 minutes

Flow rate: 0.4mL / minute

Injection vol.: 1µL

Sample Preparation: 50 μ l of Acetonitrile was mixed with 50 μ l of plasma for protein precipitation. The samples were centrifuged (*16000×g for 15 minutes*), and the supernatant was filtered through a 0.45 μ m Nylon Syringe Filter (MicroSolv Tech Corp.) and transferred to autosampler vials for injection.

Detection: ESI - POS - Agilent 6210 MSD TOF Mass Spectrometer

to: 0.9 minutes

Note: The Amphetamine derivative 3,4-methylenedioxymethamphetamine (MDMA), known also as Molly or Ecstasy, is often used or abused as a recreational drug. Because of a reported high inter-individual difference of its toxicity, sensitive analytical methods are needed. A urine test is a standard method to investigate drug abuse but the method has a very low diagnostic sensitivity and makes testing in plasma much more suitable.

Reference:

[1]. R. Kikura, Y. Nakahara, T. Mieczkowski, F. Tagliaro, Forensic Sci. Int. 84 (1997) 165-177.



Attachment

No 263 Analysis of MDMA in Plasma Samples with LCMS pdf 0.2 Mb Download File

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