

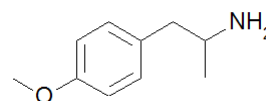
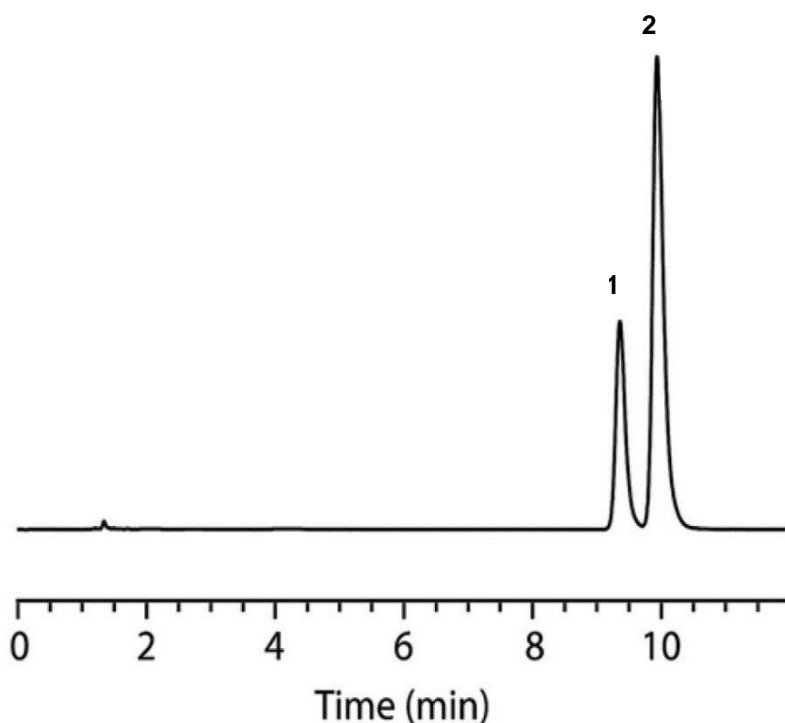
# MDMA (Ecstasy) and PMA (Dr Death) Separation

**ACE**<sup>®</sup>  
Ultra-inert  
UHPLC & HPLC Columns

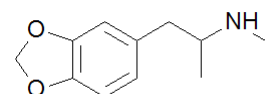
Application #AN4220

## Conditions

Column: ACE 3 C18  
Dimensions: 150 x 4.6 mm  
Part Number: ACE-111-1546  
Mobile Phase: 0.05 M KH<sub>2</sub>PO<sub>4</sub> pH 3.2 in H<sub>2</sub>O/MeCN (90:10 v/v)  
Flow Rate: 1.2 mL/min  
Injection: 10 µL  
Temperature: 22 °C  
Detection: UV, 210 nm



1. PMA (4-Methoxyamphetamine)  
LOD 0.08 µg/mL  
LOQ 0.26 µg/mL

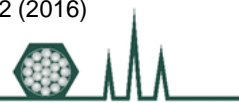


2. MDMA (3,4-Methylenedioxy methamphetamine)  
LOD 0.04 µg/mL  
LOQ 0.12 µg/mL

Cumba LR, Smith JP, Zuway KY, Sutcliffe OB, do Carmo DR, Banks CE. Forensic electrochemistry: simultaneous voltammetric detection of MDMA and its fatal counterpart 'Dr Death' (PMA). *Anal. Methods*, 8, 142-152 (2016)  
doi: 10.1039/c5ay02924d

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