

Cathinone Psychoactive Substances by LC-UV and LC-Amperometry

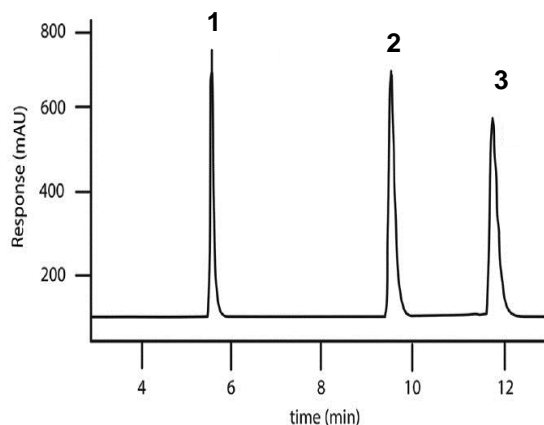
ACE[®]
Ultra-inert
UHPLC & HPLC Columns

Application #AN3500

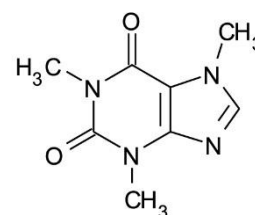
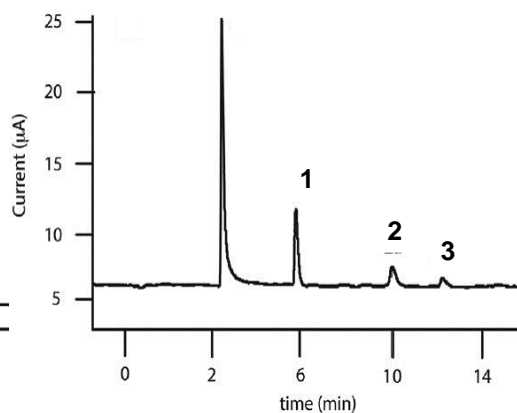
Conditions

Column: ACE 3 C18
Dimensions: 150 x 4.6 mm
Part Number: ACE-111-1546
Mobile Phase: 10 mM ammonium acetate-100 mM KCl pH 4.3/MeOH (70:30 v/v)
Flow Rate: 0.8 mL/min
Injection: 10 µL
Temperature: 22 °C
Detection: UV, 264 nm
Amperometric Potential +1.4 V

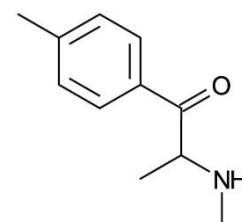
UV Detection



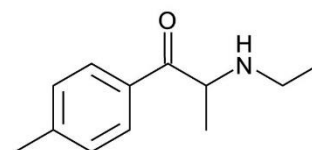
Amperometric Detection



1. Caffeine



2. 4-Methylmethcathinone (4-MMC, mephedrone)



3. 4-Methylethcathinone (4-MEC)

Zuway K, Smith J, Foster C, Kapur N, Banks C, Sutcliffe O (2015) Detection and quantification of new psychoactive substances (NPSs) within the evolved 'legal high' product, NRG-2, using high performance liquid chromatography-amperometric detection (HPLC-AD). Analyst 140, 6283. doi:10.1039/c5an01106j

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