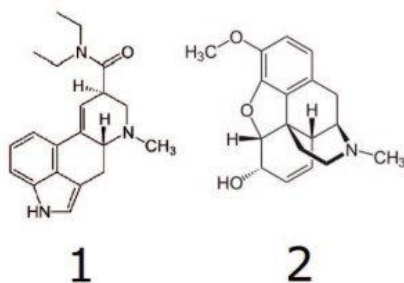
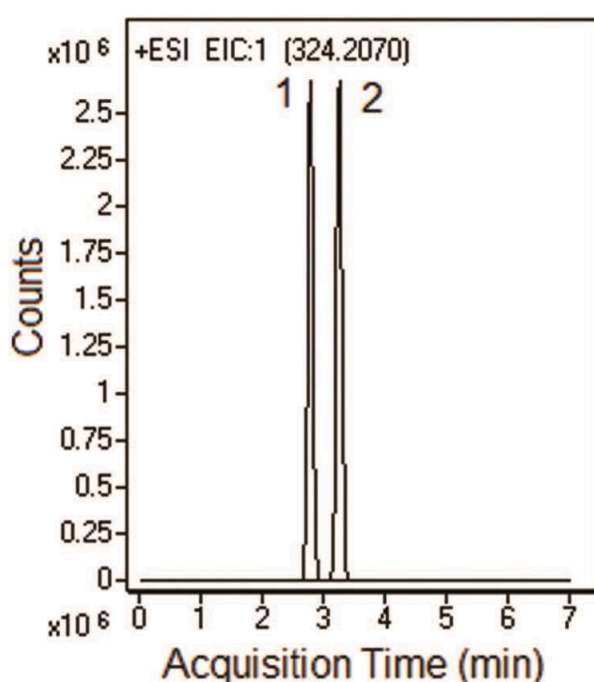


LSD and Codeine Analyzed by LCMS - AppNote

LCMS Method for Spiked Urine Sample

LSD and codeine may be present in Urine samples and methods are needed for their detection in these matrices. The extracted Ion Chromatograms (EICs) for both analytes are shown in the figure and illustrate excellent chromatographic as well as Mass Spectral Separation. The Method in this AppNote produces high Efficiency for both Peaks.



Peaks:

1. LSD 324.207 m/z [M + H]⁺
2. Codeine 300.1594 m/z [M + H]⁺

Method Conditions

Column: Cogent Diamond Hydride 2.0™, 2.2μm, 120Å

Catalog No.: [70200-05P-2](#)

Dimensions: 2.1 x 50mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid (v/v)

B: Acetone / 0.1% Formic Acid (v/v)

Gradient:

Time (Minutes)	%B
0	85
3	30
5	30
6	85

Flow rate: 0.4 mL/minute

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

Injection vol.: 1µL

Sample Preparation: Urine spiked with 5ppm LSD and Codeine standard solutions

Note: Lysergic Acid Diethylamide (LSD) was synthesized by Swiss chemist Albert Hofmann while researching Ergot Alkaloid Derivatives. It is highly potent and produces significant psychedelic effects when ingested. It is currently a Schedule I drug in the U.S. Codeine is an opiate used for analgesic, antitussive, and other effects. It may be obtained from over-the-counter formulations like Cough Syrup and therefore has potential for abuse.



Attachment No 326 LSD and Codeine pdf 0.3 Mb [Download File](#)

Printed from the Chrom Resource Center
Copyright 2025, All Rights Apply
MicroSolv Technology Corporation
9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900
Fax: (910) 769-9435
Email: customers@mtc-usa.com
Website: www.mtc-usa.com