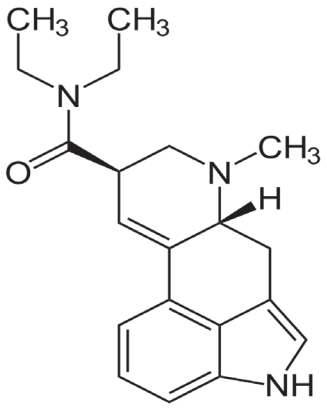
LSD and Metabolites In Blood, Plasma/ Serum, and Urine Using: 200 mg Clean Screen® Extraction Column



UCT Part Numbers

ZSDAU020
Clean Screen® DAU
200 mg, 10 mL Column

Procedure:

1. Prepare Sample

a) To 1 mL of 100 mM phosphate buffer (pH 6) add internal standards.*
b) Add 1 mL of whole blood, serum/ plasma, urine.
c) Add 2 mL of 100 mM phosphate buffer (pH 6).
d) Vortex and centrifuge as appropriate.

2. Condition Column

a) 1 x 3 mL CH_3OH.
b) 1 x 3 mL D.I. H_2O.
c) 1 x 1 mL 100 mM phosphate buffer (pH 6).

Note: aspirate at < 3 inches Hg to prevent sorbent drying out

3. Apply Sample

a) Load sample at 1-2 mL / minute.

4. Wash Column

a) 1 x 3 mL DI H_2O.
b) 1 x 3 mL 100 mM acetic acid.
c) 1 x 3 mL CH_3OH.
d) Dry column (5 minutes at > 10 inches Hg).

5. Elute LSD and Metabolites

a) 1 x 3 mL ethyl acetate; acetonitrile: ammonia (78: 20: 2 v/v)

OR

b) 1 x 3 mL CH_2Cl_2/ IPA/ ammonia (78:20:2 v/v)
c) Collect eluate at 1-2 mL /minute.

6. Evaporation

a) Evaporate eluates to dryness under a gentle stream of nitrogen.

7. Reconstitute

a) Reconstitute sample in 50 µL of CH_3OH.
b) Inject 5 µL.

FORENSICS

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Instrument Conditions	
Column	100 x 2.1 mm (3 µm) Selectra® Phenyl (UCT, LLC)
Flowrate	0.5 mL/ minute Column
Temperature	Ambient Detector: API 3200 QTRAP MS/MS

Mobile Phase		
Time (min)	**Acetonitrile %**	**0.1% Formic acid**
0	30	70
3	90	10
3.1	30	70
5.0	30	70

Compound	MRM Transistion	Cerilliant #
LSD	324.2/ 223.1	-005
Iso-LSD	324.2/281 (223.1)	I-010
Nor-LSD	310.2/209.1	L-017
OH-LSD	356.2/338.1	O-013
*LSD-D3	327.2/226.1	L-002

FORENSICS

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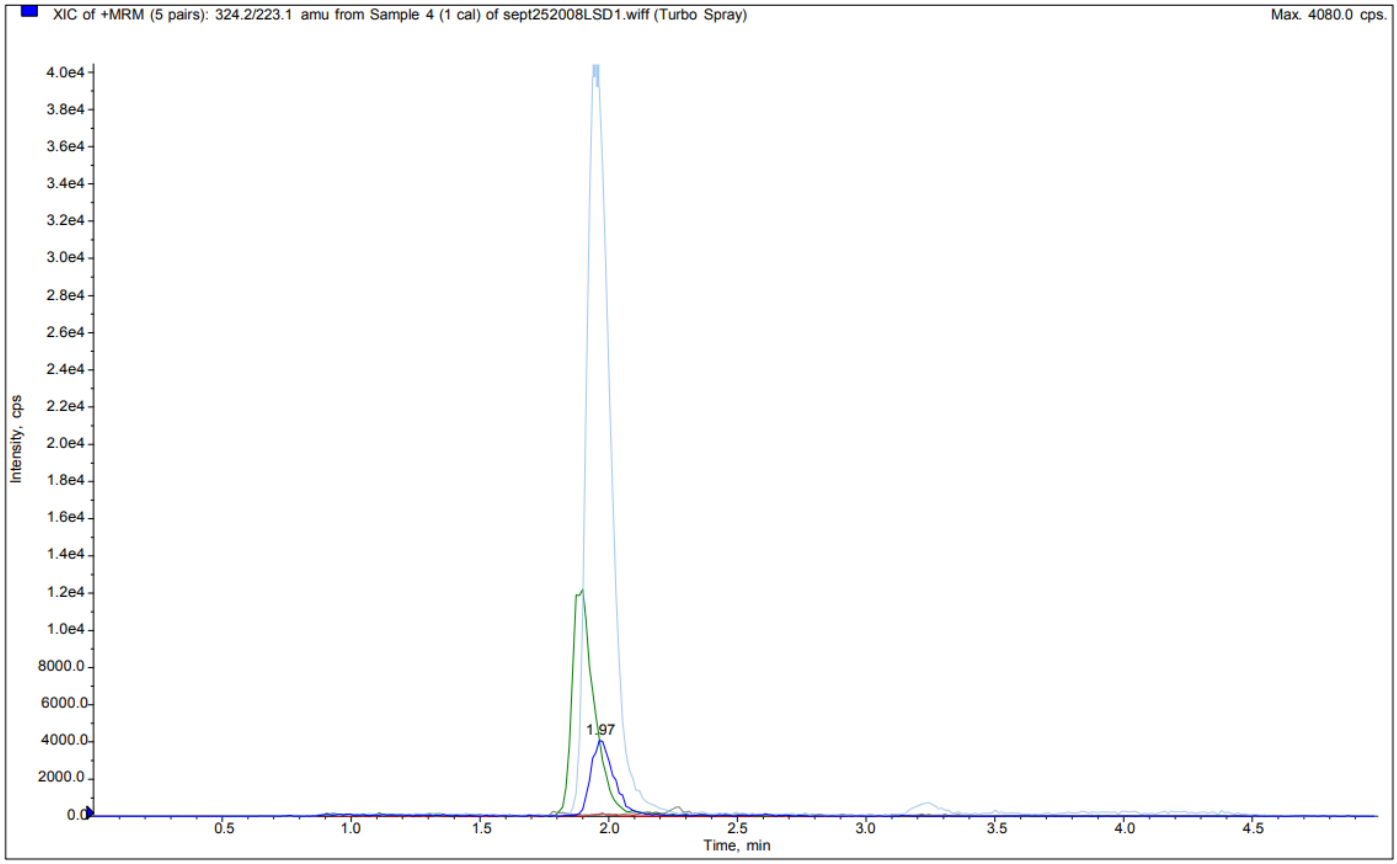
Chromatogram Of LSD And Metabolites



Recovery: > 90% (N=10)
LOD: 0.1 ng/mL

DCN-903020-77

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