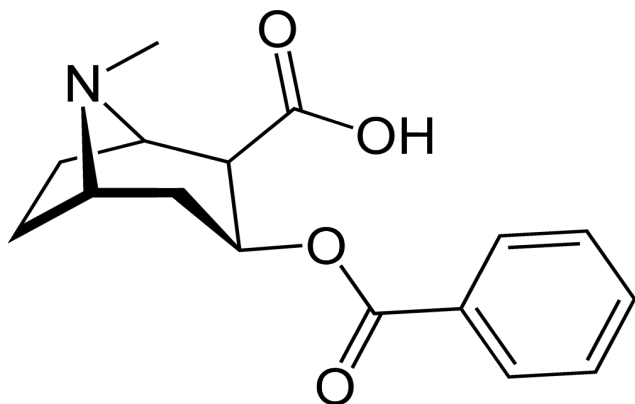


Cocaine & Benzoylecgonine In Oral Fluid For GC/MS Analysis Using: 50 mg Clean Screen® DAU Extraction Column



UCT Part Numbers

ZSDAU005

Clean Screen® DAU Extraction
Column 50mg 10mL

Procedure:

1. Prepare Sample

- Add 100 - 500 µL of neat oral fluid sample to a clean tube.
- Add internal standard(s)* and let sit for 10 minutes at room temperature.
- Add 800 µL of 100 mM phosphate buffer (pH= 6.0).
- Mix/vortex for 10 seconds. Sample pH should be 6.0 ± 0.5.
- Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate.

2. Condition Clean Screen® Extraction Column

- 1 x 200 µL CH₃OH.
- 1 x 200 µL D.I. H₂O.
- 1 x 200 µL 100 mM HCl.

3. Apply Sample

- Do not exceed 1 mL/minute.

4. Wash Column

- 1 x 500 µL D.I. H₂O.
- 1 x 500 µL 100 mM HCl acid.
- 1 x 500 µL CH₃OH/D.I. H₂O (50:50).
- Dry column (5 minutes at > 10 inches Hg).

5. Elution

- 1 x 800 µL CH₂Cl₂/IPA/NH₄OH (70:26:4).
 - Do not exceed 1 mL/minute.
- NOTE:** Prepare elution solvent daily. Add IPA/NH₄OH, mix, then add CH₂Cl₂ (pH 11-12).

6. Concentrate Eluate

- Evaporate at < 40°C under a stream of N₂

7. Derivatize*

Fluoroalkylate

- Add 100 µL PFPA (PFAA) or HFIP.
- Overlay with N₂ and cap.
- React 20 minutes at 70°C.
- Evaporate to dryness at < 40°C
- Reconstitute with 50 µL ethyl acetate.

TMS

- Add 25 µL BSTFA (w. 1% TMCS) and 25 µL ethyl acetate.
- Overlay with N₂ and cap.
- Mix/vortex
- React 30 minutes at 70°C.
- Remove from heat and allow to cool.

NOTE: Do not evaporate BSTFA solution

8. Quantitate

- Inject 2 µL onto gas chromatograph.
- For MSD monitor the following ions: (Next Page)



Analyte	Target (Quantitation) Ion	Qualifier Ions	Cerilliant #
Cocaine	182	198, 303	C-008
*Cocaine-D3	185	201, 306	C-004
Benzoylecgonine-TMS	240	256, 361	B-007
*Benzoylecgonine-D8-TMS	243	259, 369	B-013

*Alternate derivatizations may be used.

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