

Cocaine and Benzoylecgonine In Urine For GC/MS Confirmations Using: 30 mg Styre Screen® DBX Extraction Column



UCT Part Numbers

SSDBX033

STYRE SCREEN® DBX -
Benzenesulfonic Acid +
C18 30 mg 3 mL
Without Tips

Or

SSDBX033

STYRE SCREEN® DBX -
Benzenesulfonic Acid +
C18 30 mg 3 mL
With CLEAN-THRU® Tips

Procedure:

1. Prepare Sample

- To 1 mL of urine add internal standard(s) and 300 µL.
- 100 mM HCl.
- Mix/Vortex.

2. Apply Sample to DBX Column

- Load at a rate of 1 to 2 mL/min.

3. Wash Column

- 1 x 1 mL D.I. H₂O.
- 1 x 1 mL 100 mM HCl.
- 1 x 1 mL MeOH.
- Dry Column (3 mins at > 10 inches Hg).

4. Elute Cocaine and Benzoylecgonine

- 2 x 0.5 mL CH₂Cl₂/IPA/NH₄OH (78/20/2),
Collect eluate at 1 to 2 mL/min.

5. Concentrate Eluate

- Evaporate to dryness at < 40°C.

6. Derivatization

- Add 50 µL ethyl acetate and 50 µL BSTFA (1% TMCS)
then cap, mix/vortex. Heat for 20 mins at 70°C,
allow to cool.

Note: Do not evaporate BSTFA solution.

7. Analyze

- Inject 1 to 2 µL onto gas chromatograph.
- For MSD monitor the following ions:



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

* Suggested internal standards

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