

Amphetamines 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	SCDBX033 STYRE SCREEN® DBX - Benzenesulfonic Acid + C18 30 mg 3 mL With CLEAN-THRU® Tips
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Procedure:

1. Prepare Sample

- To 1 mL of urine add internal standard(s) and 1 mL 100 mM phosphate buffer (pH 6.0).
- 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 acetic acid.
- 1 x 1 mL MeOH.
- Dry column (3 mins at > 10 inches Hg).

4. Elute Amphetamines

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

5. Concentrate Eluate

- Add 1 drop 1% HCl in MeOH to eluate before evaporating.
- Evaporate to dryness at < 40 °C.

6. Derivatization

- Add 50 µL ethyl acetate and 50 µL TFA (trifluoroacetic acid anhydride) then cap, mix/vortex.
- Heat for 15 mins at 70 °C, allow to cool, then evaporate to dryness at < 40 °C.
- Reconstitute with 100 µL ethyl acetate.

7. Analyze

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



Analyte (TFA)	Target (Quantitation) Ion	Qualifier Ions	Cerilliant #
Amphetamine	140	91, 118	A-049
Amphetamine-D11	144	98, 128	A-016
Methamphetamine	154	110, 118	M-009
Methamphetamine-D11	160	113, 126	M-059

*Suggested internal standards

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