



AMPHETAMINES IN URINE FOR GC/MS CONFIRMATIONS USING: 30 mg STYRE SCREEN® DBX EXTRACTION COLUMN

Part #: SSDBX033 without Tips or SCDBX033 with CLEAN-THRU® Tips

1. SAMPLE PREPERATION

To 1 mL of urine add internal standard(s) and 1 mL 100mM 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 DI H₂O.
1 x 1 mL 100mM 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 uL ethyl acetate and 50 uL 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 uL ethyl acetate.

7. ANALYZE

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

<u>Analyte (TFA)</u>	<u>Target (Quantitation) Ion</u>	<u>Qualifier Ions</u>	<u>Cerilliant #</u>
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