



SPEware uSPE (ultraSPE) Faster / Cleaner Sample Preparation

6-MAM from Urine

For LC-MS or GC-MS confirmations using:
Trace-B 35mg.

1. PREPARE SAMPLE

To 3 ml of urine sample add internal standard(s) and 1 ml of 100 mM phosphate buffer (pH = 6.0).
Mix/Vortex. (Centrifuge sample for 2 minutes if cloudy.)

2. APPLY SAMPLE

Transfer the supernatant into the Trace B column and flow through the column at a flow rate of 1-2 ml/minute.

3. WASH COLUMN (All wash steps flow at 10-20 ml/min)

1 x 1 ml pH = 9.0 buffer *
1 x 1 ml 100 mM Acetic Acid
1 x 1 ml CH₃OH;
1 x 2 ml Ethyl Acetate dry column for 2 minutes at 25 psig

4. ELUTE DRUGS

1 x 2.0ml Ethyl Acetate containing 2% NH₄OH
Collect eluate at 1 to 2 ml/minute.
NOTE: Prepare elution solvent daily.

5. DRY ELUATE

Evaporate to dryness at room temp.

6. DERIVATIZE

Transfer to clean tube with 50 ul Ethyl Acetate. Derivatize samples w 50 ul MSTFA at room temp.

7. QUANTITATE

Inject 1 to 3 ul sample onto chromatograph.

* Prepare pH = 9.0 buffer by dissolving 10 grams KHCO₃ and 5 grams K₂CO₃ in 500 ml of DI H₂O