



SPEware uSPE (ultraSPE) Faster / Cleaner Sample Preparation

THC-COOH from Urine

For GC or GC-MS confirmations using:
Trace-N 15mg.

1. PREPARE SAMPLE

To 2 ml of urine sample add internal standard(s) and 130 μ l of 45% KOH, Vortex. Heat sample at 60 °C for 15 minutes. Cool to room temp. Add 500 μ l Glacial Acetic Acid. Vortex and check pH should be 4-5).

2. CONDITION COLUMN

Add 150 μ l Methanol containing 0.1M Acetic Acid to each column and allow to flow by gravity for 2 minutes.

3. APPLY SAMPLE

Pour sample into column and pass through at a flow rate of 1 ml/min

4. WASH COLUMN

Wash column with 1.0ml (80:20) D.I. H₂O: Acetic Acid at 1 ml/min.
Wash column with 750 μ l (40:60) D.I. H₂O: Methanol at 1 ml/min.

5. DRY COLUMN

Dry column using positive pressure set to 30 psig for 10 minutes

6. ELUTE COLUMN

Add 800 μ l of (98:2) Hexane: Glacial Acetic Acid to column and allow to gravity flow into collection vial.

7. EVAPORATE SAMPLE

Evaporate sample to dryness under room temp with nitrogen purge gas.

9. DERIVATIZE

Add 100 μ l of MSTFA. Vortex. Transfer into auto sampler vial and heat the vial at 60 °C for 15 minutes.