



## SPEware uSPE (ultraSPE) Faster / Cleaner Sample Preparation

### THC-COOH from Hair

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

Hydrolyze sample (20MG Hair with 500ul 1M NaOH 70 C for 15min add Is)  
Let cool to room temp. Add 3ml DI water. Centrifuge for 5 minutes.

1. Condition column with 3ml Ethyl Acetate
2. Condition with 1 ml Methanol
3. Load sample on to column
4. Wash with 3ml (85/15/1 H<sub>2</sub>O, Acetonitrile, NH<sub>4</sub>OH)
5. Dry Column for 5 minutes at 30 psi
6. Wash with 2ml Hexane
7. Dry for 5 min 30psi
8. Elute with 3.0ml (50/50//Hexane/Ethyl Acetate) This fraction contains parent THC and 11-OH THC
9. Elute with 2.0ml (90/10/2// Hexane/Ethyl Acetate/ 2% acetic acid) (This contains cooh metabolites)
10. Do not combine fractions and Evaporate to dryness at 40°C under nitrogen