



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

### LSD and 2-OXO-3OH-LSD from Urine

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

#### 1. PREPARE SAMPLE

To 5 to 10 ml of urine sample add internal standards(s) and 2-4 ml of 100mM 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 10-20ml/min)

1 x 1 ml pH 9.0 buffer \*  
1 x 2 ml 0.1 M HCl  
1 x 1 ml CH<sub>3</sub>OH;  
1 x 3 ml Ethyl Acetate

#### 4. ELUTE DRUGS

1 x 4.0 ml ETOAC containing 4% NH<sub>4</sub>OH  
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 50ul 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 KHCO<sub>3</sub> and 5 grams K<sub>2</sub>CO<sub>3</sub> in 500 ml of DI H<sub>2</sub>O

**Note: Recovery for both at 2ng/ml = 92%**