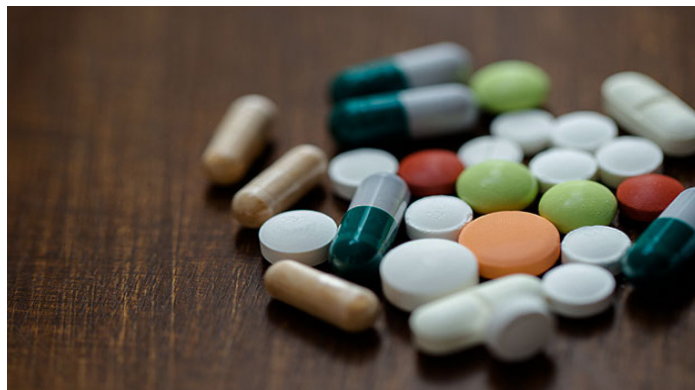


# Amphetamine In Oral Fluid Using An Oral Fluid Sampling Device



## UCT Part Numbers

**CSDAU206**  
Clean Screen® DAU  
200 mg, 6 mL

## Procedure:

### 1. Prepare Sample

**Note:** Employ oral fluid sampling device according to maker's instructions

- To 1 mL of 100 mM phosphate buffer (pH= 6) add internal standard.\* Add 1 mL of oral fluid extract. Add 2 mL of 100 phosphate buffer (pH= 6). Mix/vortex.
- Sample pH should be  $6.0 \pm 0.5$ .
- Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate.
- Mix/vortex.
- Centrifuge as appropriate.

### 2. Condition Clean Screen® DAU Extraction Column

- 1 x 3 mL  $\text{CH}_3\text{OH}$ .
- 1 x 3 mL DI  $\text{H}_2\text{O}$ .
- 1 x 1 mL 100 mM phosphate buffer (pH= 6).

**Note:** Aspirate at < 3 inches Hg to prevent sorbent drying.

### 3. Apply Sample

- Load sample at 1 to 2 mL/minute

### 4. Wash Column

- 1 x 3 mL DI  $\text{H}_2\text{O}$
- 1 x 3 mL 100 mM Acetic Acid
- 1 x 3 mL  $\text{CH}_3\text{OH}$
- Dry column (5 minutes at > 10 inches Hg)

### 5. Elute Amphetamine

- 1 x 3 mL  $\text{CH}_2\text{Cl}_2/\text{IPA}/\text{NH}_4\text{OH}$  (78:20:2)
- Collect eluate at 1-2 mL /minute.
- Add 100  $\mu\text{L}$  of mobile phase and mix.

### 6. Evaporation

- Evaporate eluate under a gentle stream of nitrogen <40°C
- Inject 10  $\mu\text{L}$

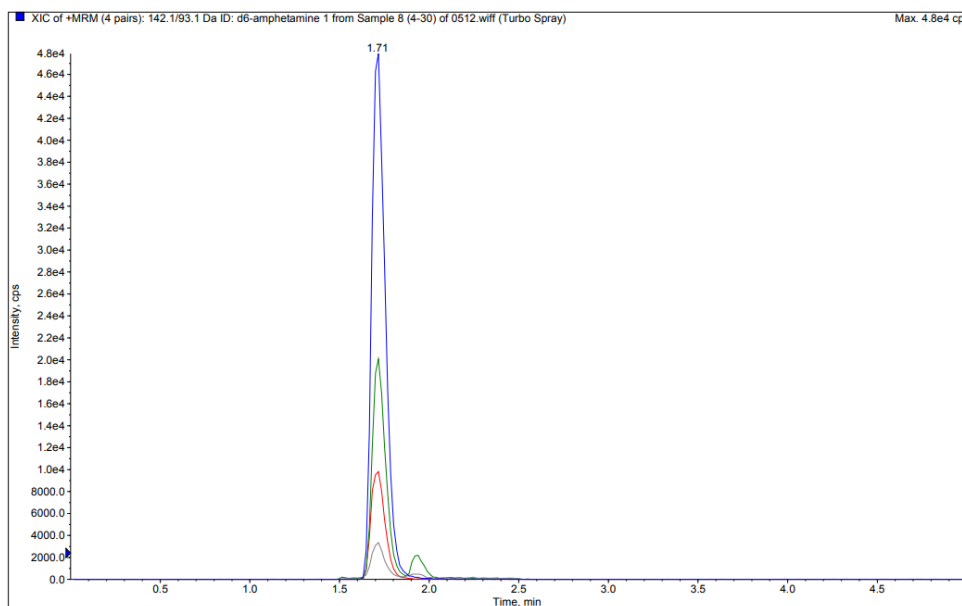


Instrument Conditions	
Column	C18 LC column 20 x 2.0 mm, 5 µm
Column Temperature	40°C
Flowrate	0.5 mL/minute
Detector	API 3200 QTRAP MS/MS

Mobile Phase		
Time (min)	% Acetonitrile	% 0.1 % Formic Acid
0.5	5	95
4.0	90	10
4.15	5	95
5.0	5	95

Compound	MRM Transition
Amphetamine	136.1/91.0
*Amphetamine-d6	142.0/94.1

### Chromatogram of Amphetamine Extracted From Oral Fluid Sampling Device



Recovery: > 95% (N=20)

LOD: 1 ng/mL



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