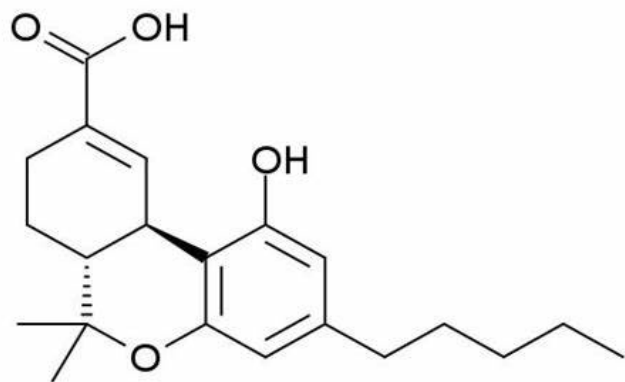


Carboxy-THC In Urine For GC/MS Confirmations Using: 30 mg Styre Screen® DBX Extraction Column



UCT Part Numbers

SSDBX033
Styre Screen® DBX
30 mg, 3 mL without tips

Or

SCDBX033
Styre Screen® DBX
30 mg, 3 mL with
Clean-Thru Tips

Procedure:

1. Sample Preparation (Base Hydrolysis)

- To 2 mL of urine add internal standard and 100 µL 10 N NaOH.
- Mix/vortex. Hydrolyze for 20 mins at 60°C. Cool before proceeding.
- Adjust sample pH to 3.5 ± 0.5 with 1.0 mL glacial acetic acid.

2. Apply Sample to DBX Column

- Load at a rate of 1 to 2 mL/min.

3. Wash Column

- 1 x 1 mL DI H₂O.
- 1 x 1 mL 0.1M HCl/acetonitrile (70/30).
- Dry column (3 mins at > 10 inches Hg).
- 1 x 200 µL hexane.

4. Elute Carboxy-THC

- 2 x 0.5 mL hexane/ethyl acetate (50:50); Collect eluate at 1 to 2 mL/min.
- Evaporate eluate to dryness at < 40°C.

5. Derivatization

- Add 50 µL ethyl acetate.
 - Vortex / mix.
 - Add 50 µL BSTFA (1% TMCS,) then cap, mix/vortex.
 - Heat for 20 minutes at 70°C, allow to cool.
- Note:** Do not evaporate BSTFA solution.

6. Analyze

- Inject 1 to 2 µL onto gas chromatograph.
- For MSD monitor the following ions:

Analyte (TMS)	Target (Quantitation) Ion	Qualifier Ions	Cerilliant #
Carboxy-THC-TMS	371	473, 488	T-018
*Carboxy-THC-D3-TMS	374	476, 491	T-004

*Suggested internal standards



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