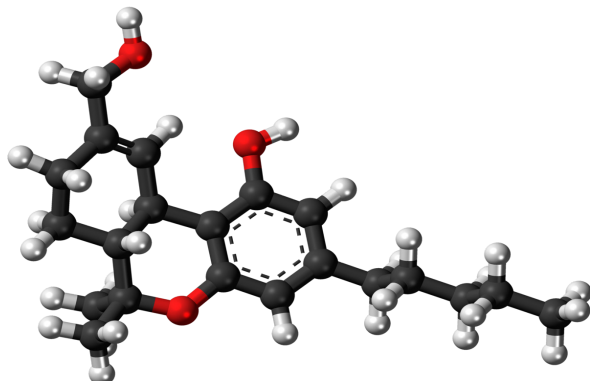


THC, Hydroxy-THC, and THC-COOH In Whole Blood, LC-MS/MS Confirmations Using: 200 mg CECEC30 Extraction Column



UCT Part Numbers

CEC30126
Clean-Up C30
Endcapped 200 mg 6 mL

Procedure:

1. Prepare Sample

- To 1 mL of whole blood add internal standards.*
- Vortex and allow to stand for approximately 10 minutes.
- Add 1 mL of ice cold acetonitrile (dropwise) whilst mixing.
- Continue to vortex mix for approximately 1 minute.
- Centrifuge and transfer acetonitrile to clean tube.
- Add 5 mL of 100 mM hydrochloric acid.

2. Condition Column

- 1 x 3 mL CH₃OH.
 - 1 x 3 mL D.I. H₂O.
 - 1 x 3 mL 100 mM hydrochloric acid.
- Note:** Aspirate at < 3 inches Hg to prevent sorbent drying.

3. Apply Sample

- Load at 1 to 2 mL/minute.

4. Wash Column

- 1 x 3 mL D.I. H₂O.
- 1 x 3 mL 100 mM hydrochloric acid
- Dry column (10 minutes at > 10 inches Hg).

5. Elute THC, THC-OH, THC-COOH

- 1 x 3 mL ethyl acetate: hexane acetic acid (25: 75:1)
- Collect eluate at 1-2 mL /minute.

6. Evaporation

- Evaporate eluates under a gentle stream of nitrogen < 40°C.
- Dissolve residue in 50 µL CH₃OH.

Instrument Conditions

Column:	50 x 2.1 mm (3 µm) Selectra TM Phenyl (UCT, Inc.,)
Flowrate:	0.35 mL/ minute
Injection Volume:	5 µL
Column Temperature:	ambient
Detector:	API 2000 MS/MS

Mobile Phase

Time	Acetonitrile	0.1% Formic Acid aq
0	50	50
10	90	10
11	50	50
15	50	50

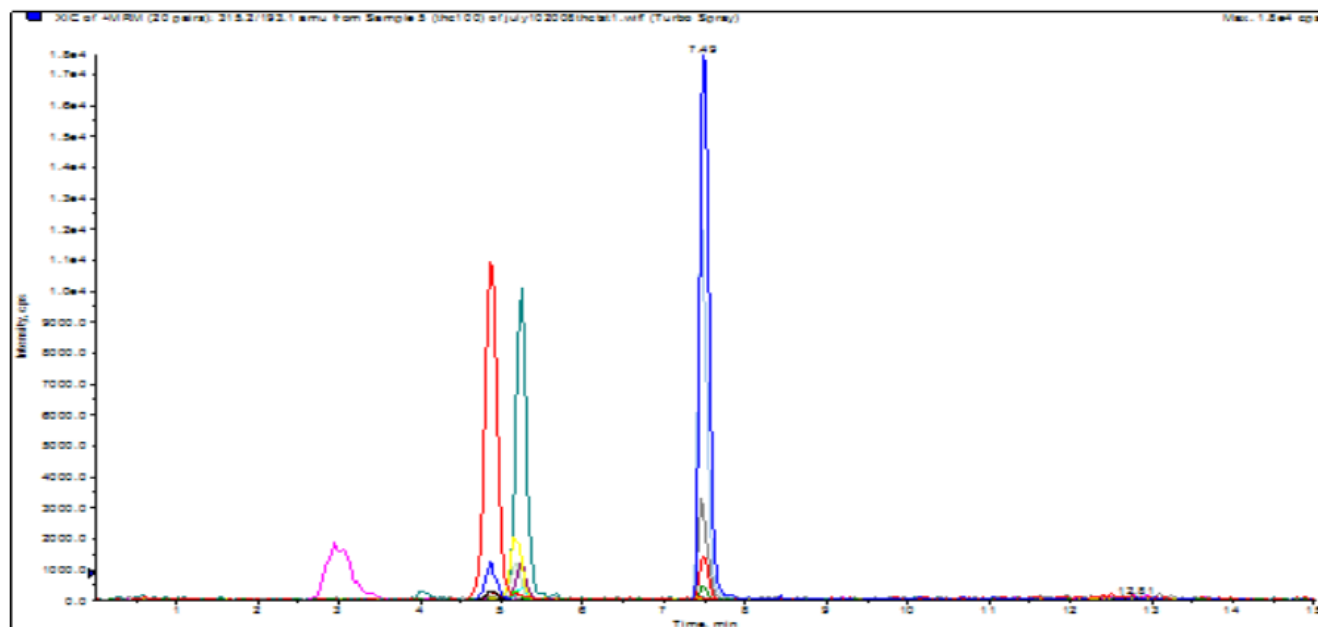


Compound	MRM Transition	Cerilliant #
THC	315.2/193.1	T-005
*THC-D3	318.0/196.1	T-003
THC-OH	330.9/313.2	H-027
*THC-OH-D3	334.0/316.2	H-041
THC-COOH	344.9/327.1	T-018
*THC-COOH-D9	354.0/336.1	T-007

Negative Mode:

THC-COOH	343.1/299.1	T-018
*THC-COOH-D3	343.1/302.1	T-004
*THC-COOH-D9	352.2/308.2	T-007

Chromatogram of : THC-OH/ THC-OH D3, THC-COOH/ THC-COOH D9, THC/ THC D3



Recovery: > 90% (N=20)

LOD: 0.5 ng/ mL



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