

THC-COOH IN URINE CLEAN SCREEN FAST[®] THC COLUMN



UCT Featured Products

SLDA50ID21-5UM
Selectra[®] DA HPLC Column,
50 x 2.1 mm, 5 µm

CSFASTH203
CLEAN SCREEN FAST[®] THC
200 mg, 3 mL Tube

Procedure:

1) Prepare Sample-Base Hydrolysis of Glucuronides

To 2 mL of urine add internal standard and 50 µL of 10 M NaOH.
Mix/vortex.
Hydrolyze for 15 minutes at 60-70 °C.
Cool before proceeding.
Adjust sample pH to 7.0 with 50 µL of 1:1 H₂O: Glacial Acetic Acid.
Add 200 µL pH 7.0 100mM Phosphate Buffer (pH should be ~7.0)

2) Load Sample and Sample Dilute Ratio

Sample Dilution Ratio: Sample Volume* :
Diluent** Volume

NOTE: *If sample is hydrolyzed add appropriate aliquot volume after hydrolysis is complete.

Dilution Ratio	Urine	Diluent**
1:1	500 µL	500 µL
1:4	200 µL	800 µL
1:9	100 µL	900 µL

** Diluent is 50:50 (Acetonitrile: D.I. H₂O)

Sample and diluents are added in an appropriately labeled tube.

Add appropriate volume internal standard(s). It is recommended to use an internal standard volume of no more than 200 µL.

3) Extraction & Collection

Set up extraction manifold with FAST cartridges and auto-sampler collection vials.

Pour sample into FAST cartridge and elute sample directly into auto-sampler vials.

4) Analysis

Cap vials and put directly onto LC/MS for analysis.



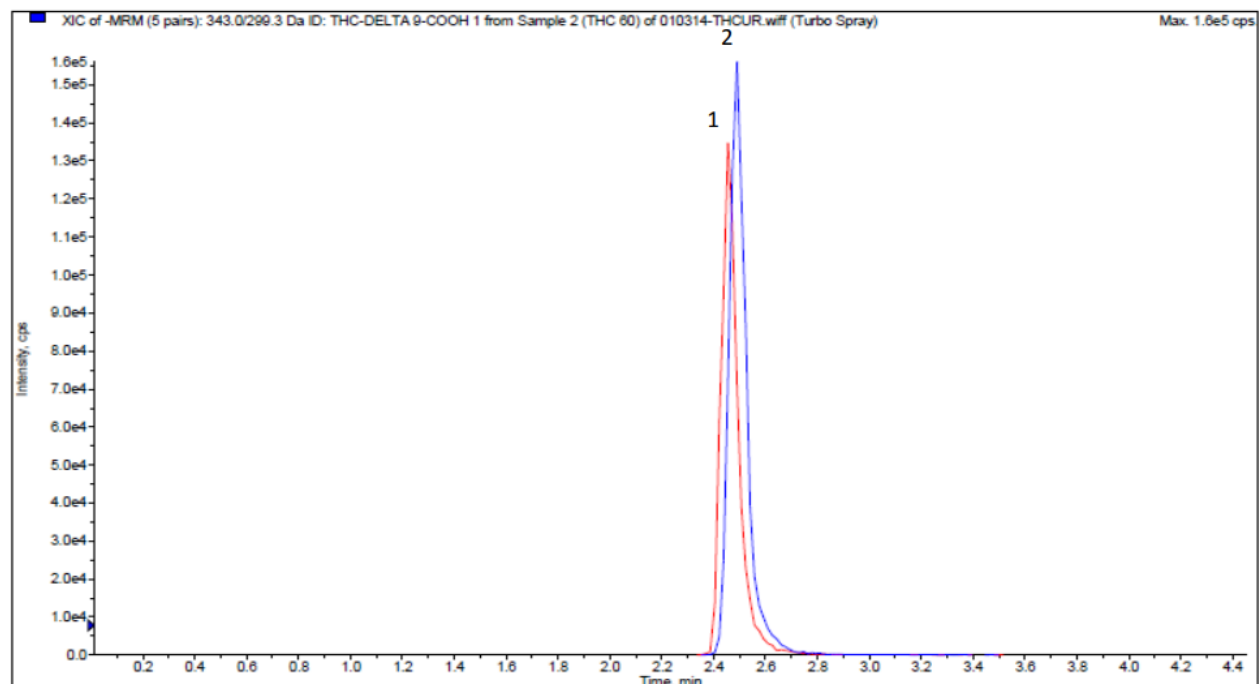
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INSTRUMENT CONDITIONS (LC-MS/MS):



Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
THC-DELTA 9-COOH D ₉	352	308	2.44
THC-DELTA 9-COOH	343	299	2.49

LC-MS/MS Parameters	
Mobile Phase A	0.1% Formic Acid in D.I. H ₂ O
Mobile Phase B	0.1% Formic Acid in Methanol
Flow Rate	0.5 mL/minute
Instrument	API 3200 Qtrap MS/MS with Shimadzu Prominence UFLC
LC Column	Selectra® DA HPLC Column 50 x 2.1 mm 5 µm
Polarity	Negative
Injection Volume	20 µL

Gradient		
Time	%A	%B
0.00	60	40
2.00	30	70
2.50	10	90
2.51	60	40
4.00	STOP	STOP



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