THC-COOH IN URINE CLEAN SCREEN FASt ® THC COLUMN

Part #

CSFASTH203 – CLEAN SCREEN FASt® THC 200 mg, 3 mL Tube

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

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 H_2O: Glacial Acetic Acid.

Add 200 µL pH 7.0 100 mM 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. H_2O)

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 and COLLECTION:

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

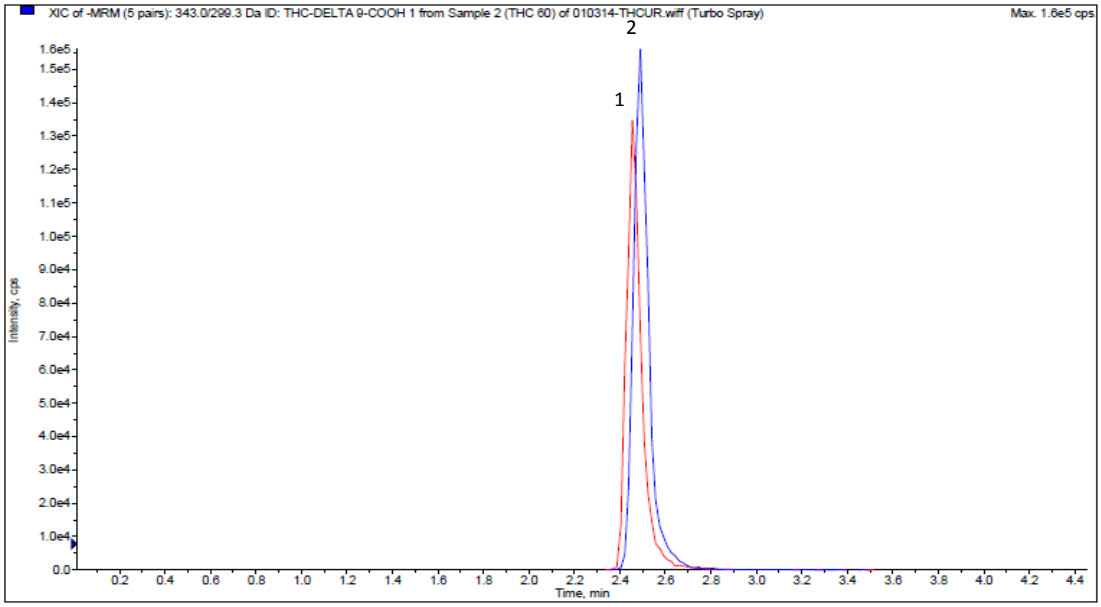
Pour sample into FAST cartridge and elute sample directly into auto-sampler vials.

4. ANALYSIS:

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

INSTRUMENT CONDITIONS (LC-MS/MS):

CHROMATOGRAM



Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
1. THC-DELTA 9-COOH D_9	352	308	2.44
2. THC-DELTA 9-COOH	343	299	2.49

PARAMETERS

Mobile Phase A: 0.1% Formic Acid in D.I. H_2O

Mobile Phase B: 0.1% Formic Acid in Methanol

Flow Rate: 0.5 mL/minute

Polarity: Negative

Injection Volume: 20 µL

LC Column: Selectra® DA HPLC Column 50 x 2.1 mm 5 µm

Instrument: API 3200 Qtrap MS/MS with Shimadzu Prominence UFLC

Gradient:

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