



EtG/EtS IN HAIR BY LC-MS/MS USING 200 MG CLEAN SCREEN[®] ETG EXTRACTION COLUMN

Part #

CSETG203 – CLEAN SCREEN[®] ETG 300 mg, 3 mL Tube

1. PREPARE SAMPLE:

Into a clean glass tube add approx. 50-100 mg of decontaminated hair.

Add 1 mL of D.I. H₂O, add internal standards*

Vortex mix

Incubate at 40 °C for 12 hours

Centrifuge as appropriate

2. CONDITION CLEAN SCREEN[®] EXTRACTION COLUMN:

1 x 3 mL CH₃OH containing 1% Formic Acid

1 x 3 mL D.I. H₂O containing 1% Formic Acid

NOTE: Aspirate at full vacuum or pressure

3. APPLY SAMPLE:

Load at 1 to 2 mL/minute

4. WASH COLUMN

1 x 3 mL D.I. H₂O:

Dry column (**10 minutes** at full vacuum or pressure)

5. ELUTE EtG/EtS ANALYTES:

2 x 3 mL CH₃OH containing 1% Formic Acid

Collect eluate at 1 to 2 mL/minute

6. DRY ELUATE:

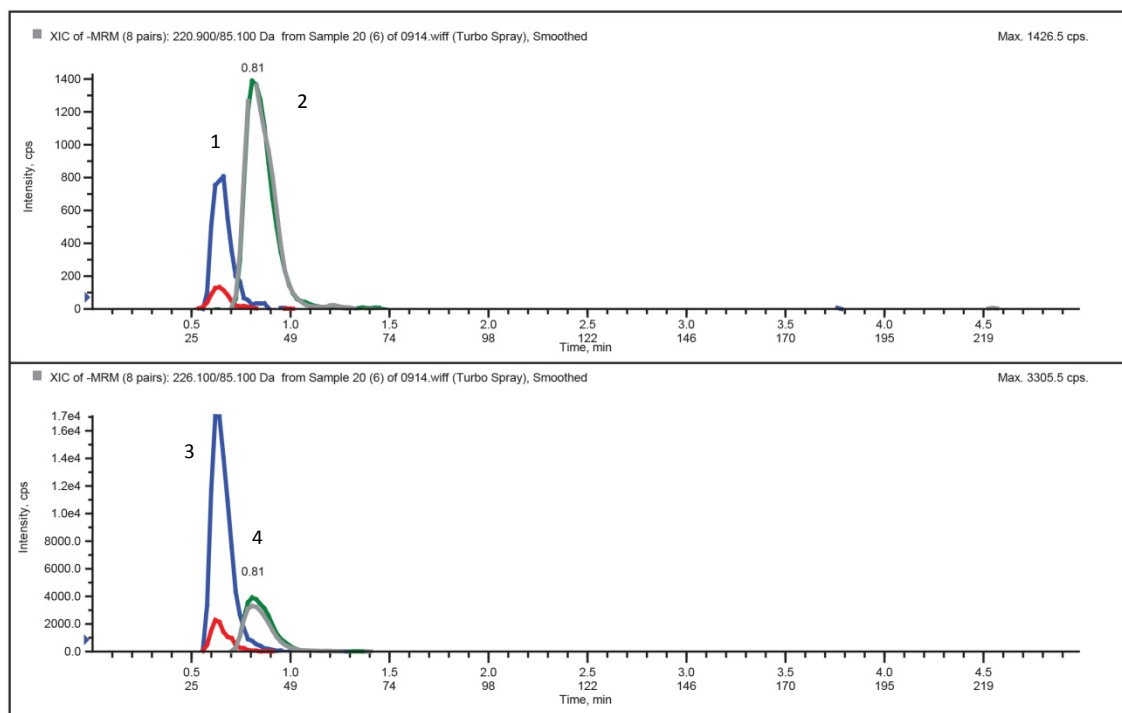
Evaporate to dryness at < 40 °C

7. RECONSTITUTE:

with 50-100 µL of Mobile Phase

INSTRUMENT CONDITIONS (LC-MS/MS):

CHROMATOGRAMS



Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
1.EtS	125.1	95.8	0.65
2.EtG	220.9	75.1	0.83
3.EtS D ₅	130.1	97.8	0.63
4.EtG D ₅	226.1	74.9	0.81

PARAMETERS

Mobile Phase A: 0.1% Formic Acid in D.I. H₂O

Mobile Phase B: 0.1% Formic Acid in Acetonitrile

Flow Rate: 0.35 mL/minute

Polarity: Negative

Injection Volume: 20 µL

LC Column: Diamond Hydride LC Column 100 x 2.1 mm (4µm)

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

Isocratic:

Time	%A	%B
0.00	50	50
5.00	50	50