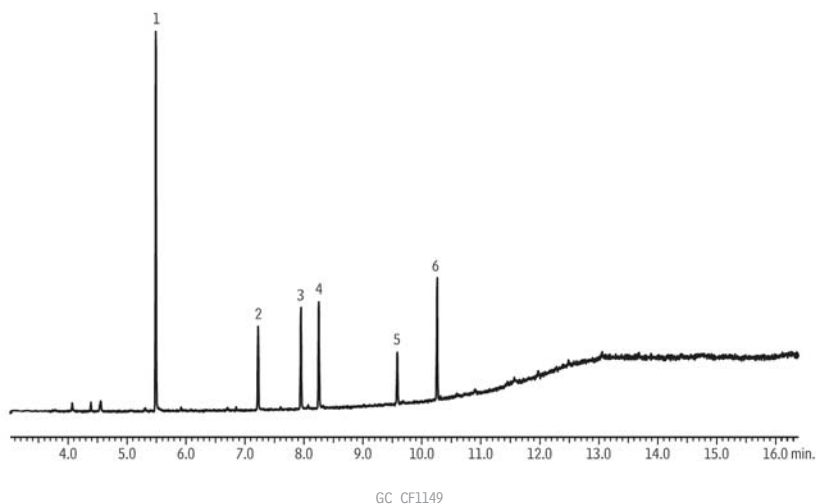


Cocaine and Metabolites (TMS Derivatives) on Rxi®-5Sil MS (100 ng/mL)



Peaks	m/z 1	m/z 2	m/z 3
1. Ecgonine methyl ester	82	96	256
2. Ecgonine	82	96	356
3. Cocaine	82	182	303
4. Cocaethylene	82	196	317
5. Benzoylecgonine	82	96	346
6. Cannabinol*	409	--	--

Column Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 μ m (cat.# 13623)

Sample
Diluent: Butyl chloride
Conc.: 100 ng/mL

Injection
Inj. Vol.: 1 μ L splitless (hold 1 min.)
Liner: Single Gooseneck w/Wool (cat.# 22286-200.1)
Inj. Temp.: 250 °C
Purge Flow: 20 mL/min.

Oven
Oven Temp: 100 °C to 200 °C at 30 °C/min. to 300 °C at 15 °C/min.

Carrier Gas
Carrier Gas: He, constant linear velocity
Linear Velocity: 40 cm/sec., 12.5 psi, 86.2kPa @ 100 °C

Detector
Detector: MS
Mode: SIM

Transfer Line
Temp.: 310 °C
Source Temp.: 250 °C

Solvent Delay
Time: 4 min.
Tune Type: PFTBA
Ionization Mode: EI

Instrument Shimadzu 2010 GC & QP2010+ MS
Notes Samples were prepared as follows:
Standards brought to dryness under nitrogen, then 50 μ L BSTFA + 1%TMCS (cat.# 35606) added. 50 μ L pyridine was then added, and samples were incubated at 70 °C for 30 min. After incubation, samples were diluted with butyl chloride.
* Used as derivatization check