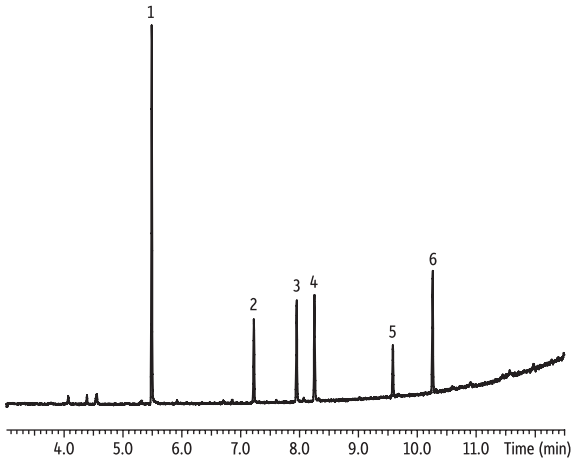
Cocaine and Metabolites (TMS Derivatives) on Rxi-5Sil MS (100 ng/mL)



GC_CF1149

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	--	--

*Cannabinol was used as a derivatization check.

Column	Rxi-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Standard/Sample	
Diluent:	Butyl chloride
Conc.:	100 ng/mL
Injection	
Inj. Vol.:	1 µL splitless (hold 1 min)
Liner:	Single taper w/wool
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	He, constant linear velocity
Linear Velocity:	40 cm/sec, 12.5 psi, 86.2 kPa @ 100 °C
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
Sample Preparation	Standards brought to dryness under nitrogen, then 50 µL BSTFA + 1% TMCS (cat.# 35606) were added. 50 µL pyridine was then added, and samples were incubated at 70 °C for 30 min. After incubation, samples were diluted with butyl chloride.
Notes	Liner cat.# 22286-200.1 was used to produce this chromatogram, but has since been discontinued. For assistance choosing a replacement for this application, contact Restek Technical Service or your local Restek representative.