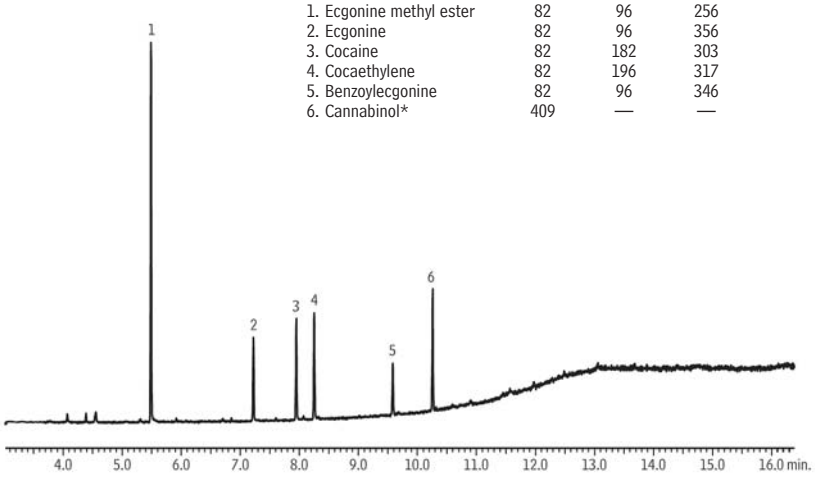
Cocaine and Metabolites (TMS Derivatives)
Rxi®-5Sil MS (100 ng/mL)

NEW!

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	—	—

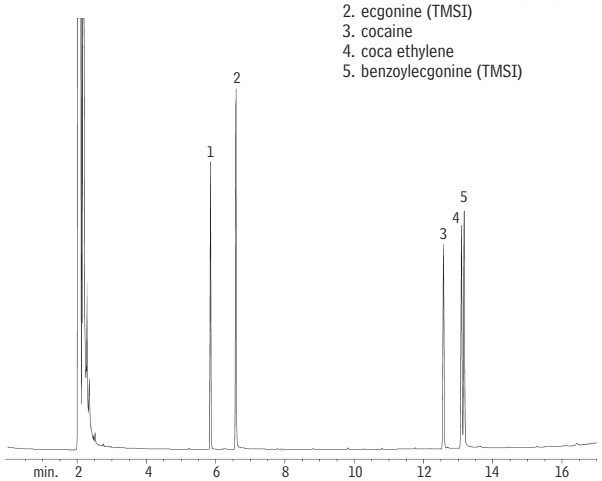


GC_CF1149

Column	Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Sample	
Diluent:	Butyl chloride
Conc.:	100 ng/mL
Injection	
Inj. Vol.:	1 µL 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	He, constant linear velocity
Linear Velocity:	40 cm/sec., 12.5 psi, 86.2kPa @ 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
Notes	Samples were prepared as follows: Standards brought to dryness under nitrogen, then 50 µL BSTFA + 1%TMCS (cat.# 35606) 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. * Used as derivitazation check

Cocaine & Metabolites (TMS Derivatives)
Rtx®-5

1. ecgonine methyl ester (TMSI)
2. ecgonine (TMSI)
3. cocaine
4. coca ethylene
5. benzoylecgonine (TMSI)

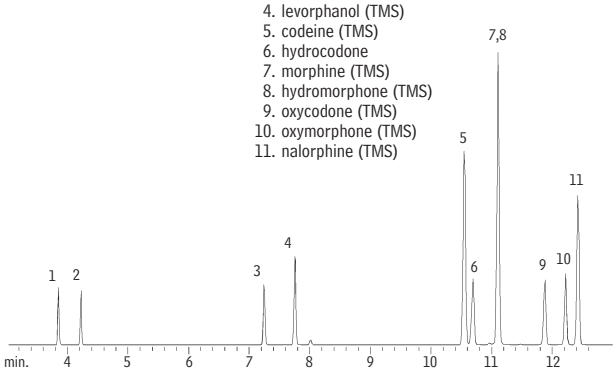


GC_PH00254

Column:	Rtx®-5, 30m, 0.25mm ID, 0.25µm (cat.# 10223)
Sample:	1.0µL split injection of cocaine and cocaine metabolites
Oven temp.:	150°C to 320°C @ 10°C/min.
Inj./det. temp.:	250°C/300°C
Carrier gas:	helium
Linear velocity:	30cm/sec. set @ 50°C
FID sensitivity:	2.56 x 10^{-10} AFS
Split ratio:	30:1

Opiates (TMS Derivatives)
Rtx®-5

1. meperidine
2. alphaprodine
3. methadone
4. levorphanol (TMS)
5. codeine (TMS)
6. hydrocodone
7. morphine (TMS)
8. hydromorphone (TMS)
9. oxycodone (TMS)
10. oxymorphone (TMS)
11. nalorphine (TMS)



GC_PH00233

Column:	Rtx®-5, 30m, 0.25mm ID, 0.25µm (cat.# 10223)
Sample:	2.0µL split injection of opiates
Conc:	2,000ng/µL
Oven temp.:	200°C to 325°C @ 7°C/min.
Inj./det. temp.:	250°C/300°C
Det. type:	MS
Ionization:	EI
Carrier gas:	helium
Mode:	full scan
Linear velocity:	30cm/sec. set @ 200°C
Split ratio:	50:1