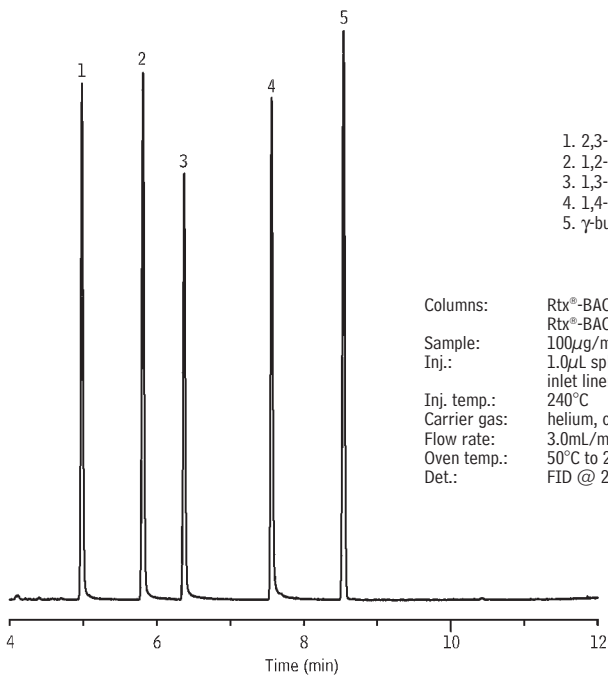
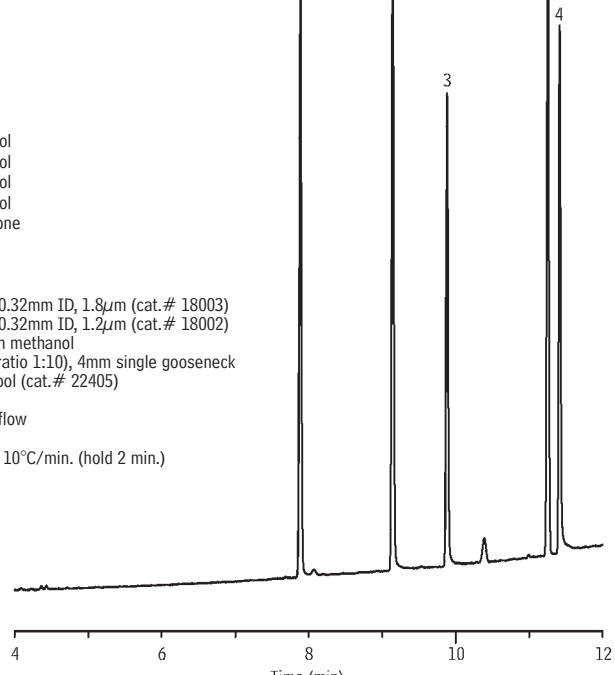


γ-butyrolactone & 1,4-butanediol

Rtx®-BAC1



Rtx®-BAC2



1. 2,3-butanediol
2. 1,2-butanediol
3. 1,3-butanediol
4. 1,4-butanediol
5. γ-butyrolactone

Columns: Rtx®-BAC1, 30m, 0.32mm ID, 1.8μm (cat.# 18003)
 Rtx®-BAC2, 30m, 0.32mm ID, 1.2μm (cat.# 18002)
 Sample: 100μg/mL each in methanol
 Inj.: 1.0μL split (split ratio 1:10), 4mm single gooseneck inlet liner with wool (cat.# 22405)
 Inj. temp.: 240°C
 Carrier gas: helium, constant flow
 Flow rate: 3.0mL/min.
 Oven temp.: 50°C to 240°C @ 10°C/min. (hold 2 min.)
 Det.: FID @ 240°C

GC_PH00808

GC_PH00809

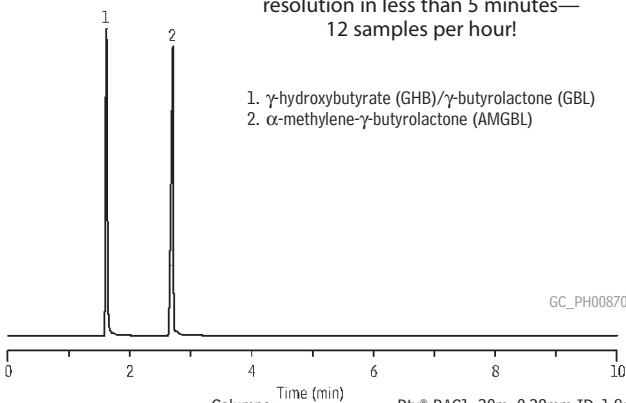
GC APPLICATIONS | FORENSICS

**γ-hydroxybutyrate (GHB) and γ-butyrolactone (GBL)
 Rtx®-BAC1 and Rtx®-BAC2 (dual column analysis)**

Rtx®-BAC1 column

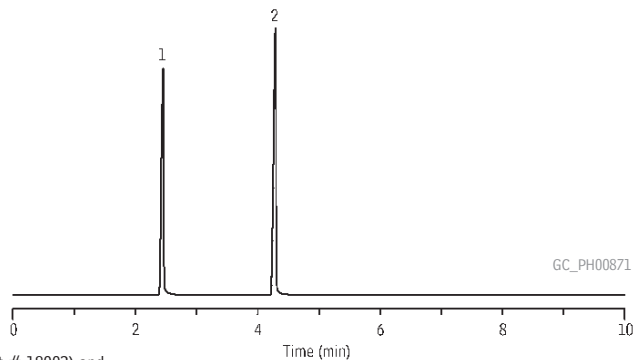
Sharp peaks and baseline resolution in less than 5 minutes—
 12 samples per hour!

1. γ-hydroxybutyrate (GHB)/γ-butyrolactone (GBL)
2. α-methylene-γ-butyrolactone (AMGBL)



GC_PH00870

Rtx®-BAC2 column



GC_PH00871

Columns: Rtx®-BAC1, 30m, 0.32mm ID, 1.8μm (cat.# 18003) and
 Rtx®-BAC2, 30m, 0.32mm ID, 1.2μm (cat.# 18002),
 connected via universal "Y Press-Tight" connector (cat.# 20405)
 Sample: GHB, GBL, α-methylene-γ-butyrolactone (AMGBL), 10μg/mL each in water
 Inj.: 1.0mL headspace, split (split ratio 1:10), 1mm split inlet liner (cat.# 20972)
 Inj. temp.: 200°C
 Carrier gas: helium, constant pressure
 Linear velocity: 44cm/sec. @ 50°C
 Oven temp.: 50°C (3 min.) to 150°C @ 20°C/min. (hold 7 min.)
 Det.: FID @ 240°C
 Headspace autosampler: Teledyne/Tekmar HT3
 Sample/platen temp.: 100°C
 Sample equilibration: 15 min.
 Mixing time: 5 min.
 Vial pressure: 10psig
 Vial pressurization time: 2 min.
 Loop fill time: 2 min.

