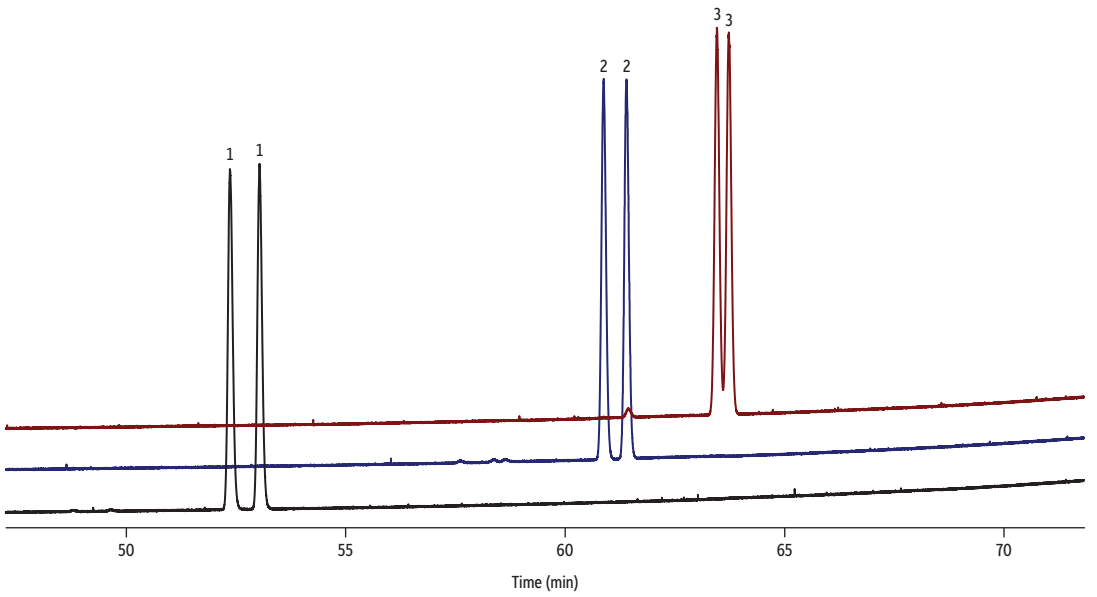
Lactones on Rt-βDEXcst



GC_FF1378

Peaks	t_R 1	t_R 2
1. (±)-γ-Nonalactone	52.365	53.038
2. (±)-γ-Undecalactone	60.879	61.399
3. (±)-δ-Dodecalactone	63.463	63.733

Column	Rt-βDEXcst, 30 m, 0.32 mm ID, 0.25 µm (cat.# 13102)
Standard/Sample	(±)-γ-Nonalactone (±)-γ-Undecalactone (±)-δ-Dodecalactone
Diluent:	Acetone
Conc.:	1000 µg/mL
Injection	
Inj. Vol.:	1 µL split (split ratio 100:1)
Liner:	Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)
Inj. Temp.:	210 °C
Oven	
Oven Temp.:	40 °C (hold 1 min) to 230 °C at 2 °C/min (hold 3 min)
Carrier Gas	H_2, constant flow
Linear Velocity:	80 cm/sec @ 40 °C
Detector	FID @ 230 °C
Constant Column + Constant Make-up:	51.4 mL/min
Make-up Gas Type:	N_2
Hydrogen flow:	40 mL/min
Air flow:	400 mL/min
Data Rate:	50 Hz
Instrument	Agilent 7890A GC
Sample Preparation	Individual lactones (neat) were dissolved in acetone to a final concentration of 1000 ppm in 2 mL, screw-thread vials (cat.# 21143), and capped with short-cap, screw-vial closures (cat.# 24495).
Notes	The enantiomeric resolution of the individual lactones was (±)-γ-nonalactone 3.8, (±)-γ-undecalactone 3.1, and (±)-δ-dodecalactone 1.6.