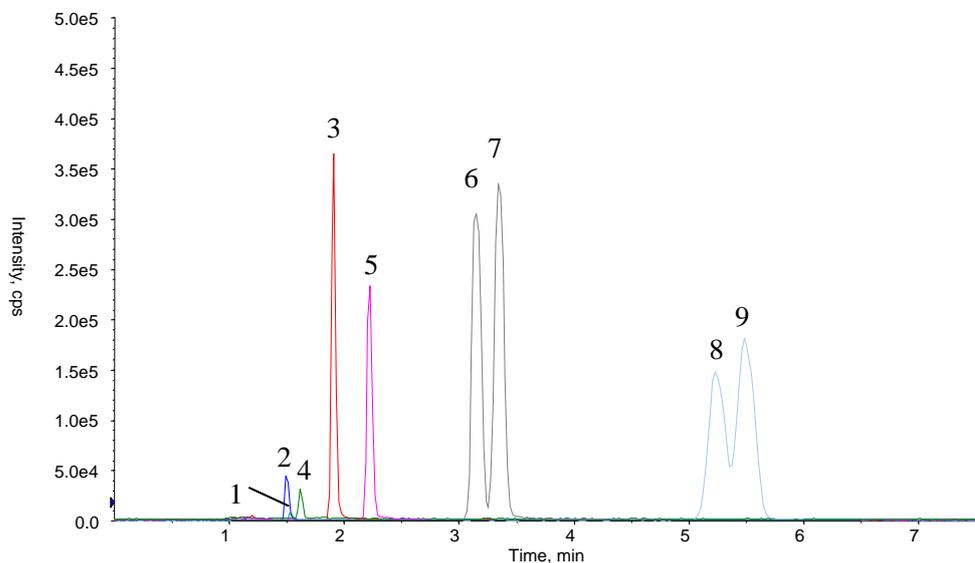


# InertSearch™ for LC

Inertsil® Applications

## Analysis of Preservatives (Inertsil ODS-4)

Data No. LB048-0811



### Conditions

**System** : LC800 HPLC system  
4000 Q TRAP®

**Column** : Inertsil ODS-4 (2 μm, 75 x 2.1 mm I.D.)

**Column Cat. No.** : 5020-81203

**Eluent** : A) 0.05 % HCOOH in (H<sub>2</sub>O/CH<sub>3</sub>CN = 5/95, v/v)  
B) 0.05 % HCOOH in (H<sub>2</sub>O/CH<sub>3</sub>CN = 95/5, v/v)  
A/B = 5/95 - 0.2 min - 37/63 - 5.3 min - 37/63  
- 0.01 min - 5/95 - 2.5 min - 5/95, v/v

**Flow rate** : 0.5 mL/min

**Col. Temp.** : 40 °C

**Detection** : LC/MS/MS (4000 Q TRAP® : ESI, Positive, MRM)  
CUR CAD IS TEM GS1 GS2  
50 3 5500 700 60 50  
LC/MS/MS (4000 Q TRAP® : ESI, Negative, MRM)  
CUR CAD IS TEM GS1 GS2  
40 2 -4500 700 80 60

**Injection Vol.** : 2 μL

**Sample** : Standards

### Analyte:

	Q1/Q3	
1. Benzoic acid	121/77, Nega	(1 mg/L)
2. Sorbic acid	113/67, Posi	(1 mg/L)
3. Dehydroacetic Acid	169/85, Posi	(1 mg/L)
4. <i>p</i> -Hydroxy benzoic acid methyl ester	153/109, Posi	(1 mg/L)
5. <i>p</i> -Hydroxy benzoic acid ethyl ester	167/139, Posi	(1 mg/L)
6. <i>p</i> -Hydroxy benzoic acid <i>iso</i> -propyl ester	181/139, Posi	(1 mg/L)
7. <i>p</i> -Hydroxy benzoic acid <i>n</i> -propyl ester	181/139, Posi	(1 mg/L)
8. <i>p</i> -Hydroxy benzoic acid <i>iso</i> -butyl ester	195/139, Posi	(1 mg/L)
9. <i>p</i> -Hydroxy benzoic acid <i>n</i> -butyl ester	195/139, Posi	(1 mg/L)