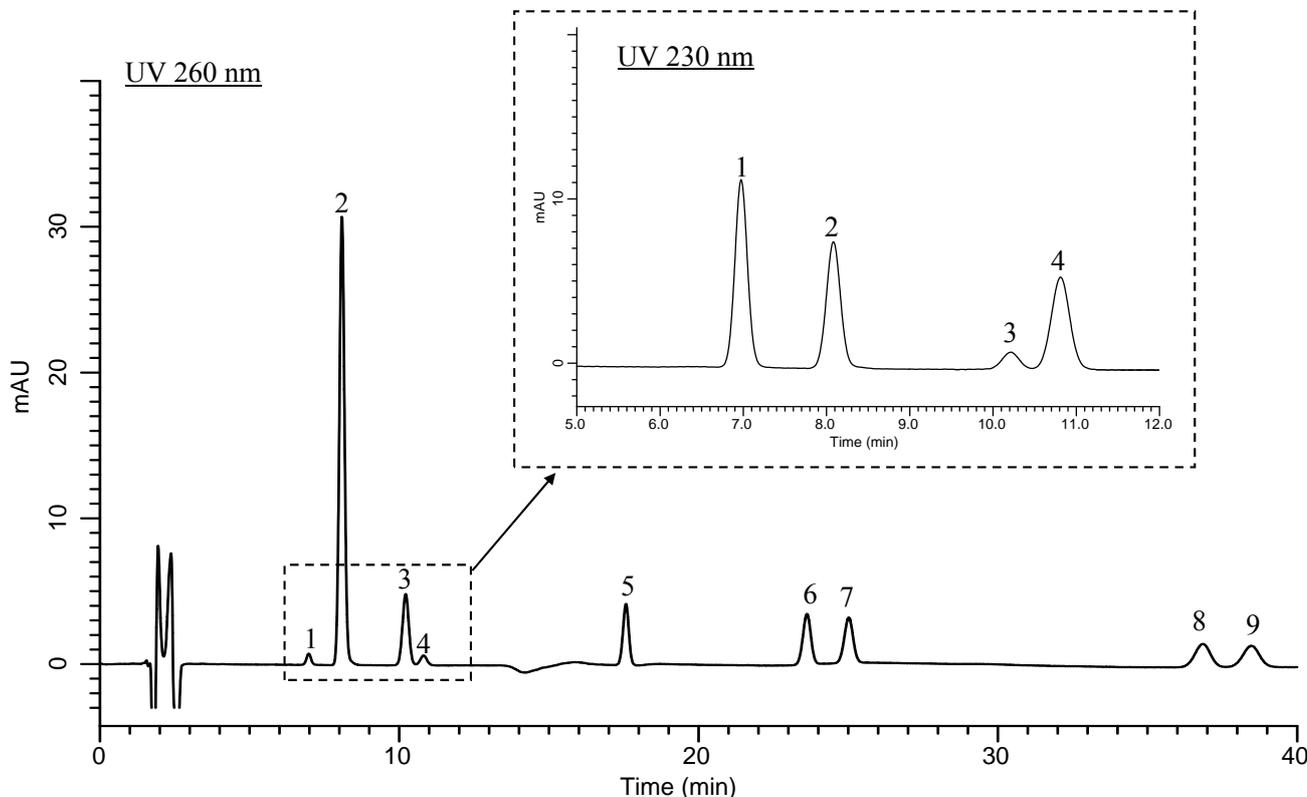


InertSearch™ for LC

Inertsil® Applications

Analysis of Preservatives (Inertsil ODS-4)

Data No. LB047-0811



Conditions

System : GL-7400 HPLC system
Guard Column : Cartridge Guard Column E
Inertsil ODS-4 (5 µm, 10 x 4.0 mm I.D.)
Column Cat. No. : 5020-08520
Column : Inertsil ODS-4 (5 µm, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-03946
Eluent : A) CH₃OH/CH₃CN/5 mM Citric acid buffer*
= 5/4/11, v/v/v
B) CH₃OH/CH₃CN/5 mM Citric acid buffer*
= 1/2/7, v/v/v
A/B = 0/100 -10 min- 0/100 -5 min- 100/0
-22 min- 100/0, v/v
Flow rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 230, 260 nm (GL-7452A PDA detector)
Injection Vol. : 20 µL
Sample : Standards

Analyte:

1. Benzoic acid	(1 mg/L)
2. Sorbic acid	(1 mg/L)
3. Dehydroacetic Acid	(1 mg/L)
4. <i>p</i> -Hydroxy benzoic acid methyl ester	(1 mg/L)
5. <i>p</i> -Hydroxy benzoic acid ethyl ester	(1 mg/L)
6. <i>p</i> -Hydroxy benzoic acid <i>iso</i> -propyl ester	(1 mg/L)
7. <i>p</i> -Hydroxy benzoic acid <i>n</i> -propyl ester	(1 mg/L)
8. <i>p</i> -Hydroxy benzoic acid <i>iso</i> -butyl ester	(1 mg/L)
9. <i>p</i> -Hydroxy benzoic acid <i>n</i> -butyl ester	(1 mg/L)

* 5 mM Citric acid buffer : Dissolve 7.0 g of citric acid monohydrate and 6.0 g of Tri-sodium Citrate Dihydrate in 1 L of water, and dilute ten-fold by water.