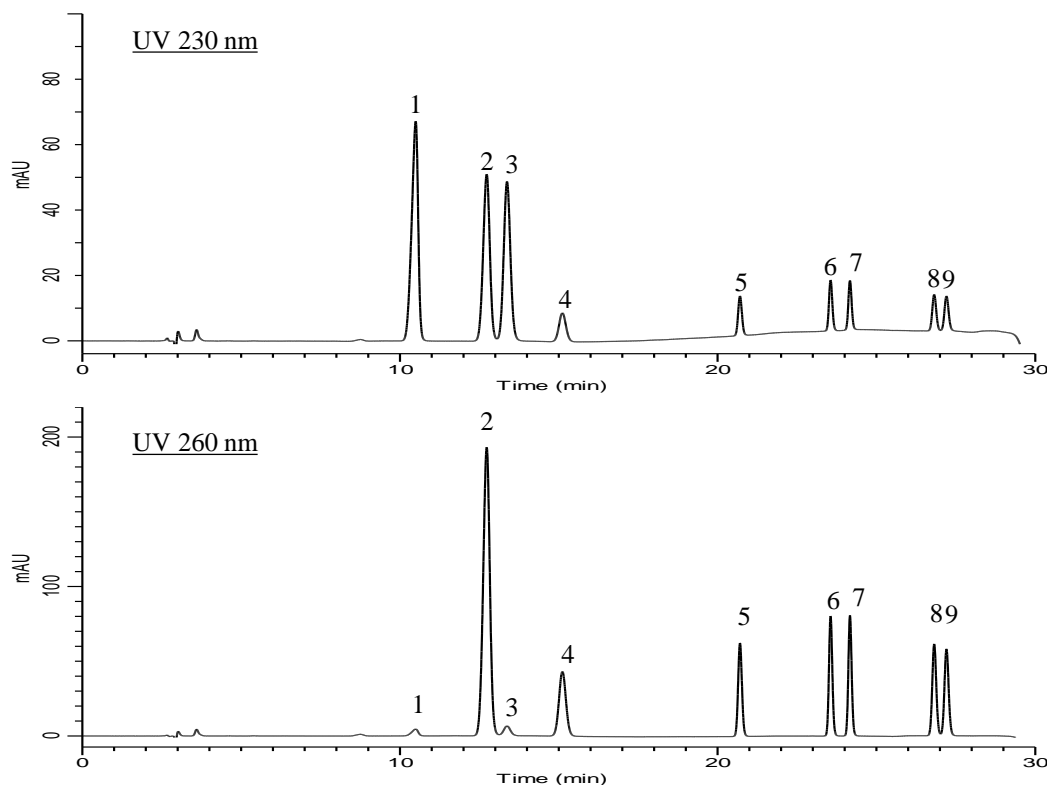


## Analysis of Preservatives (Inertsil ODS-4)



### 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) CH<sub>3</sub>OH/H<sub>2</sub>O/200 mM KH<sub>2</sub>PO<sub>4</sub> (pH 4.0, H<sub>3</sub>PO<sub>4</sub>)  
                   = 14/5/1, v/v/v  
               B) CH<sub>3</sub>OH/H<sub>2</sub>O/200 mM KH<sub>2</sub>PO<sub>4</sub> (pH 4.0, H<sub>3</sub>PO<sub>4</sub>)  
                   = 2/17/1, v/v/v  
               A/B = 50/50 - 10 min - 50/50 - 10 min - 100/0  
                   - 5 min - 100/0 - 0.1 min - 50/50 - 10 min - 50/50, v/v

### Analyte:

1. Benzoic acid	(10 mg/L)
2. Sorbic acid	(10 mg/L)
3. Dehydroacetic Acid	(10 mg/L)
4. <i>p</i> -Hydroxy benzoic acid methyl ester	(10 mg/L)
5. <i>p</i> -Hydroxy benzoic acid ethyl ester	(10 mg/L)
6. <i>p</i> -Hydroxy benzoic acid <i>iso</i> -propyl ester	(10 mg/L)
7. <i>p</i> -Hydroxy benzoic acid <i>n</i> -propyl ester	(10 mg/L)
8. <i>p</i> -Hydroxy benzoic acid <i>iso</i> -butyl ester	(10 mg/L)
9. <i>p</i> -Hydroxy benzoic acid <i>n</i> -butyl ester	(10 mg/L)

**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