

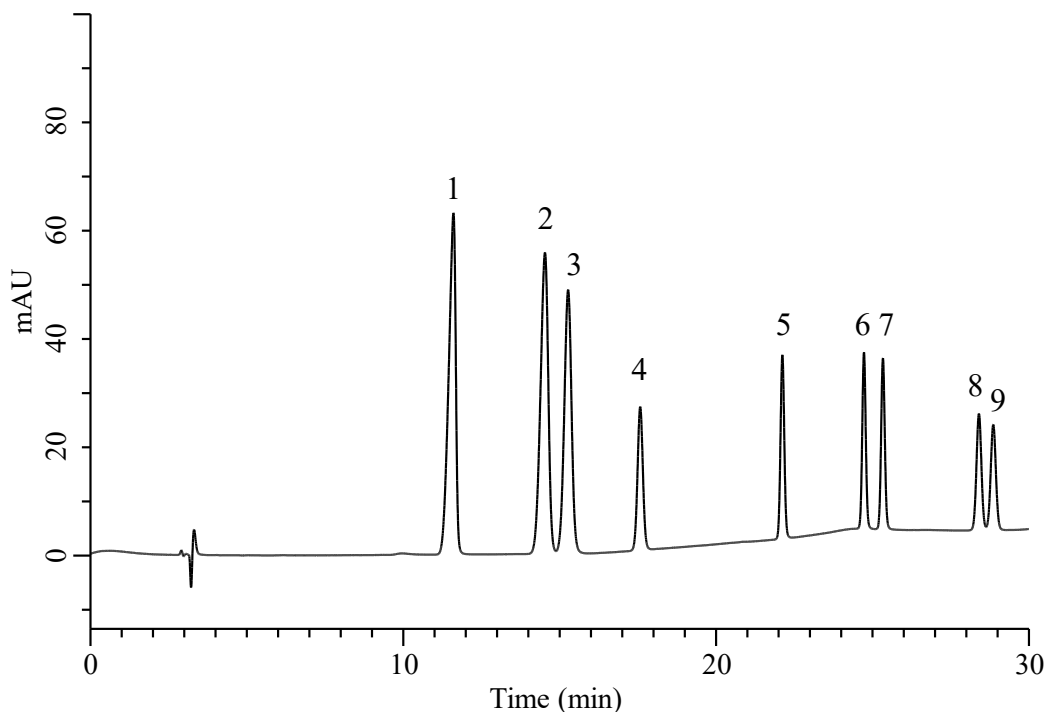
# InertSearch™ for LC

Inertsil® Applications

## Analysis of *p*-Hydroxybenzoic acid esters

(Under the Condition of food additive analysis method in food,  
Benzoic Acid and Sodium Benzoate)

Data No. LB853-7111



### Conditions

**System** : Chromaster HPLC system (HITACHI)

**Column** : InertSustain C18 (GL Sciences Inc.)  
(5  $\mu$  m, 250 x 4.6 mm I.D.)

**Column Cat. No.** : 5020-07346

**Eluent** : A) CH<sub>3</sub>OH/H<sub>2</sub>O/Buffer\*  
= 2/17/1, v/v/v  
B) CH<sub>3</sub>OH/H<sub>2</sub>O/Buffer\*  
= 14/5/1, v/v/v

### Analyte:

1. Benzoic acid	10 $\mu$ g/mL
2. Sorbic acid	10 $\mu$ g/mL
3. Dehydroacetic acid	10 $\mu$ g/mL
4. Methyl <i>p</i> -hydroxybenzoate	10 $\mu$ g/mL
5. Ethyl <i>p</i> -hydroxybenzoate	10 $\mu$ g/mL
6. Isopropyl <i>p</i> -hydroxybenzoate	10 $\mu$ g/mL
7. Propyl <i>p</i> -hydroxybenzoate	10 $\mu$ g/mL
8. Isobutyl <i>p</i> -hydroxybenzoate	10 $\mu$ g/mL
9. Butyl <i>p</i> -hydroxybenzoate	10 $\mu$ g/mL

Time (min)	A (Vol%)	B (Vol%)
0.0	50	50
10.0	50	50
20.0	0	100
26.0	0	100
26.1	50	50
35.0	50	50

**Flow Rate** : 1.0 mL/min

**Col. Temp.** : 40 °C

**Detection** : UV 230 nm

**Injection Vol.** : 20  $\mu$  L

**Sample** : Standard

\* Phosphate buffer solution (0.2 mol/L, pH 4.0): Dissolve 27.0 g of potassium dihydrogen phosphate and 0.2 g of phosphoric acid with water to make 1000 mL.