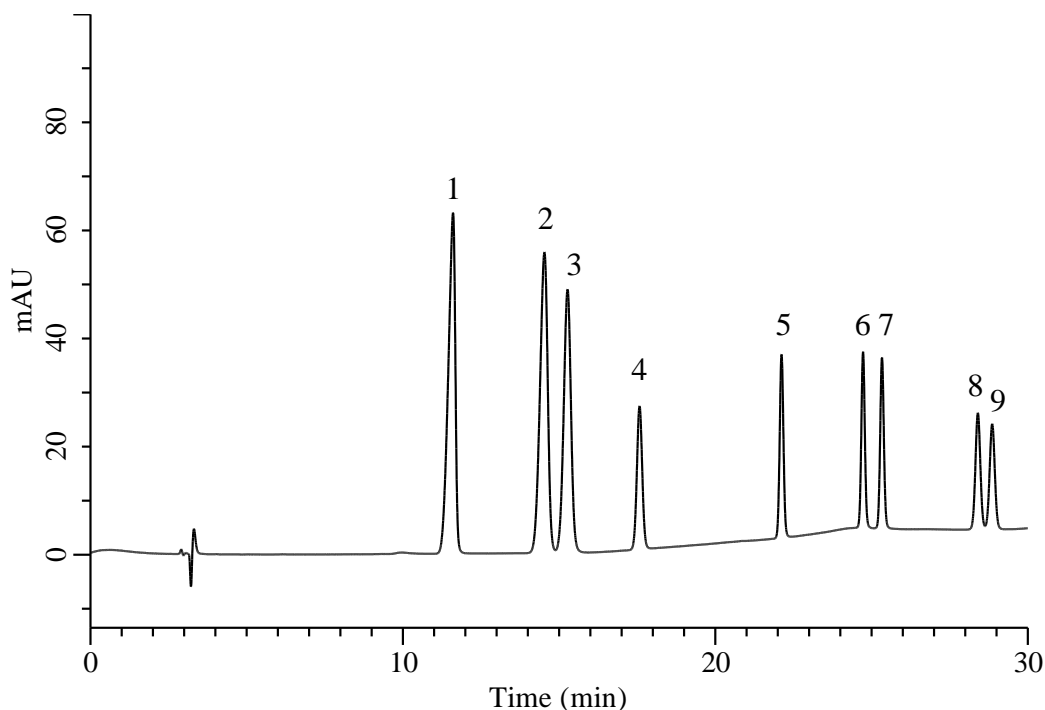


Analysis of *p*-Hydroxybenzoic acid esters

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



Conditions

System : Chromaster HPLC system (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : A) CH₃OH/H₂O/Buffer*
 = 2/17/1, v/v/v
 B) CH₃OH/H₂O/Buffer*
 = 14/5/1, v/v/v

Analyte:

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