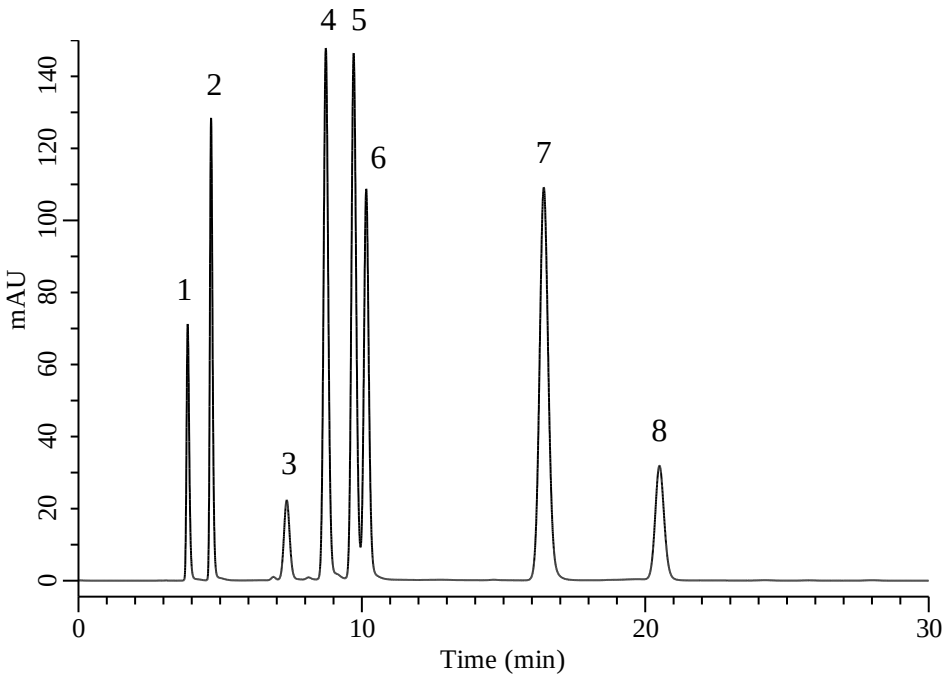
Analysis of Water-soluble vitamins and D-Araboascorbic acid

（Under the Condition of food additive analysis method in food, L-Ascorbic Acid 2-Glucoside）



Conditions

System : Chromaster HPLC system (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.) (5 μm, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : A) CH_3CN
B) Solution*
A/B = 1/9, v/v
Flow Rate : 0.8 mL/min
Col. Temp. : 40 ℃
Detection : UV 260 nm
Injection Vol. : 10 μL
Sample : Standard

Analyte:
1. Pyridoxine hydrochloride (Vitamin B_6)
2. Nicotinamide
3. Vitamin B_{12}
4. L-Ascorbic acid 2-glucoside
5. L-Ascorbic acid
6. D-Araboascorbic acid
7. Riboflavin (Vitamin B_2)
8. Nicotinic acid

50 μg/mL each

*Add 1.4 g potassium dihydrogenphosphate and 26 mL tetrabutylammonium hydroxide to 800 mL water, adjust to pH 5.2 with phosphoric acid solution**, and make up to 1000 mL with water.

**20% Phosphoric acid in water