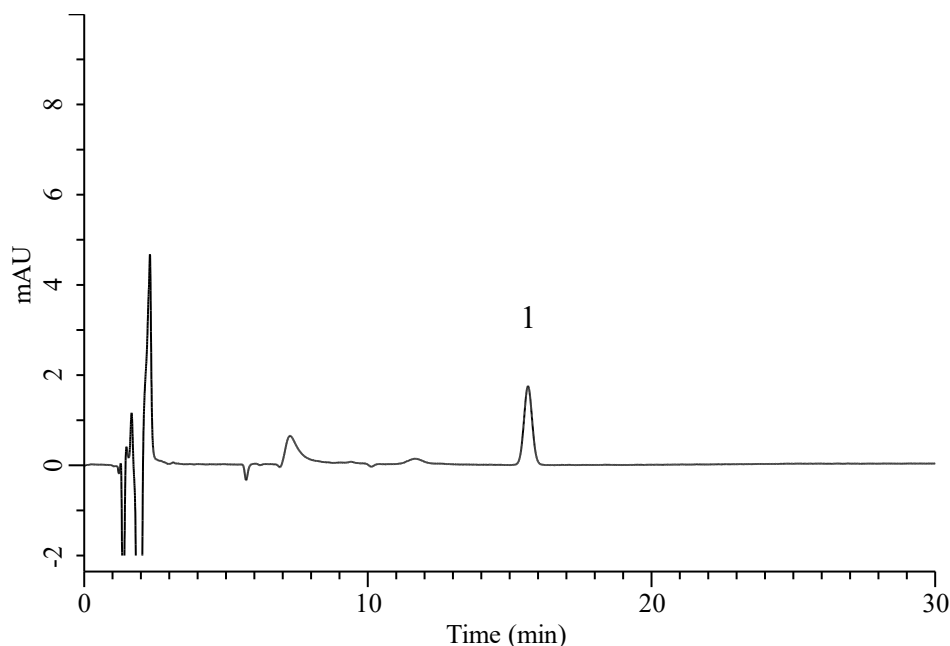


Analysis of D-Biotin

(Under the Condition of USP43-NF38, Oil- and Water-Soluble Vitamins with Minerals Tablets, BIOTIN Method 3)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : Solution*
Flow Rate : 2.0 mL/min
Col. Temp. : 40 °C
Detection : UV 200 nm (Chromaster 5410 UV)
Injection Vol. : 100 μ L
Sample : Standard in H₂O

Analyte:

1. D-Biotin 0.6 μ g/mL

Tailing factor : 1.02 ($\leq$ 1.5)

RSD of the peak area(%)(n=6) : 1.29 ($\leq$ 2.0)

*:Transfer 80 mL of acetonitrile and 10 mL of Solution ** to a 1000-mL volumetric flask. Dilute with water to volume.

**:Transfer 800 mL of water and 100 mL of triethylamine to a 1000-mL volumetric flask. Add 80 mL of 85% phosphoric acid, and dilute with water to volume.