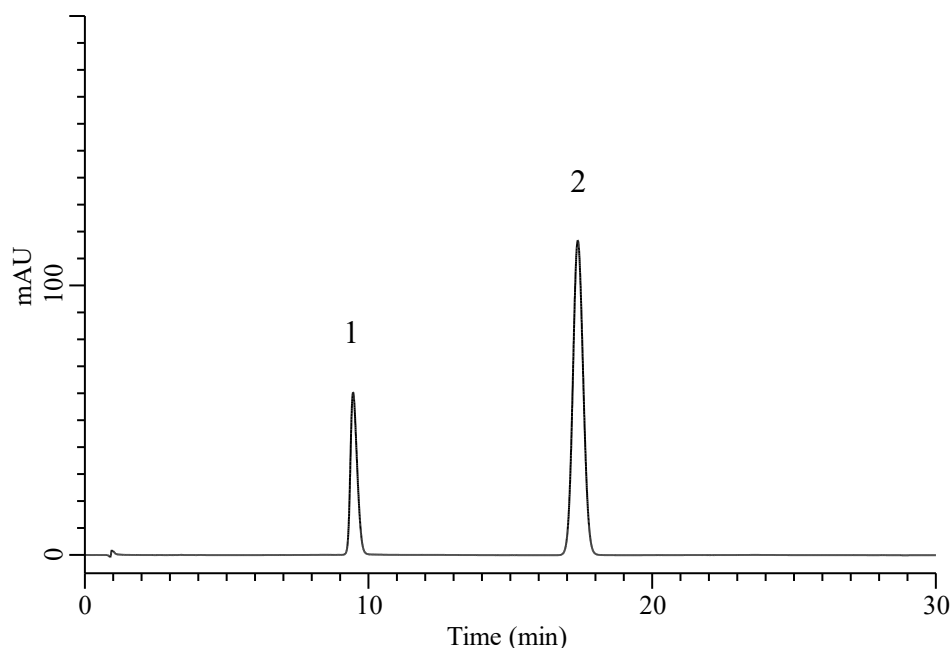


Analysis of Calcium pantothenate

(Under the Condition of USP41-NF36, Oil- and Water-Soluble Vitamins Capsules_
CALCIUM PANTOTHENATE_Method 1)



Conditions

System : Primaide (HITACHI)
Column : InertSustainSwift C18 (GL Sciences Inc.)
 (5 μ m, 150 x 3.9 mm I.D.)
Column Cat. No. : 5020-90560
Eluent : A) H_3PO_4
 B) H_2O
 A/B = 1/1000, v/v
Flow Rate : 1.5 mL/min
Col. Temp. : 30 $^{\circ}C$
Detection : UV 210 nm (Primaide 1410 UV)
Injection Vol. : 10 μ L
Sample : Standard in Internal standard Solution*

Analyte:

1. Calcium pantothenate 0.6 mg/mL
 2. *p*-Hydroxybenzoic acid 0.08 mg/mL

Relative retention time
 Calcium pantothenate : 0.54
p-Hydroxybenzoic acid: 1.00

RSD of the
 peak area of 1 (%) (n=5) : 0.24 (≤ 3.0)
 peak area of 2 (%) (n=5) : 0.13 (≤ 3.0)

*: 80 mg of *p*-hydroxybenzoic acid in 3 mL of ethanol(99.5). Add 50 mL of water and 7.1 g of dibasic sodium phosphate, and dilute with water to 1000 mL. Adjust with phosphoric acid to a pH of 6.7.