

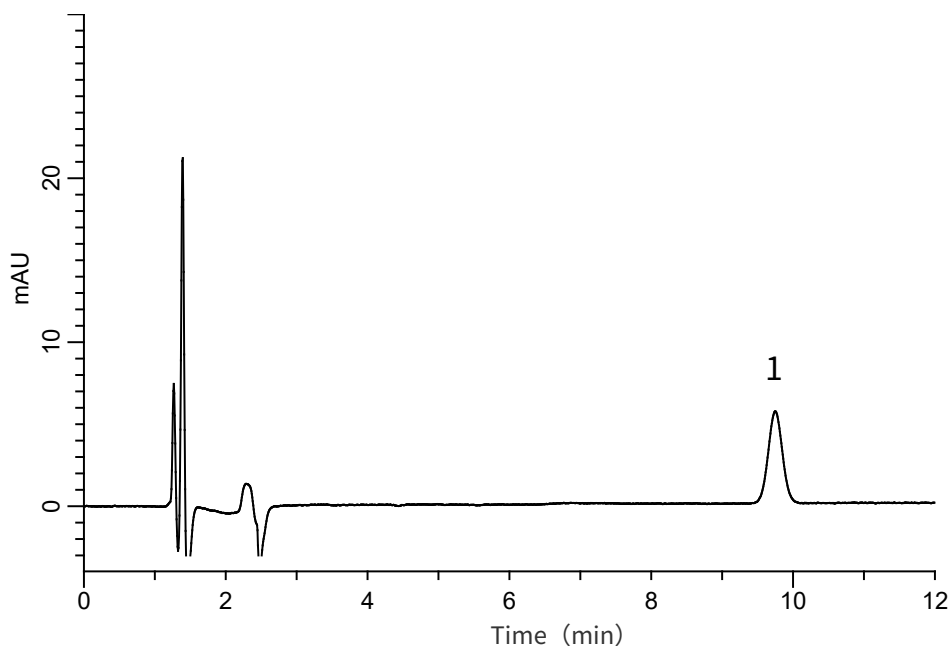
InertSearch™ for LC

Inertsil® Applications

Analysis of Calcium pantothenate

(Under the Condition of the Japanese Pharmacopoeia, Ascorbic acid and Calcium pantothenate Tablets)

Data No. LB244-0894



Conditions

System : GL-7400 HPLC system
Column : Inertsil ODS-4
(5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-03945
Eluent : A) CH₃CN
B) Buffer*
A/B = 3/97, v/v
Flow Rate : 1.25 mL/min
Col. Temp. : 40 °C
Detection : UV 210 nm (GL-7452 PDA Detector)
Injection Vol. : 100 μ L
Sample : Standard

*Dissolve 7.80 g of NaH₂PO₄ · 2 H₂O in 900 mL of water.
Adjust pH 2.6 by phosphoric acid.
Add water to make 1,000 mL.

Analyte:

1. Calcium pantothenate 3.3 mg/L
Theoretical plates : 11,240 ($\geq$ 5,000)
Tailing factor : 1.05 ($\leq$ 2.0)
RSD of the
peak area (%) (n=6) : 0.73 ($\leq$ 2.0)