

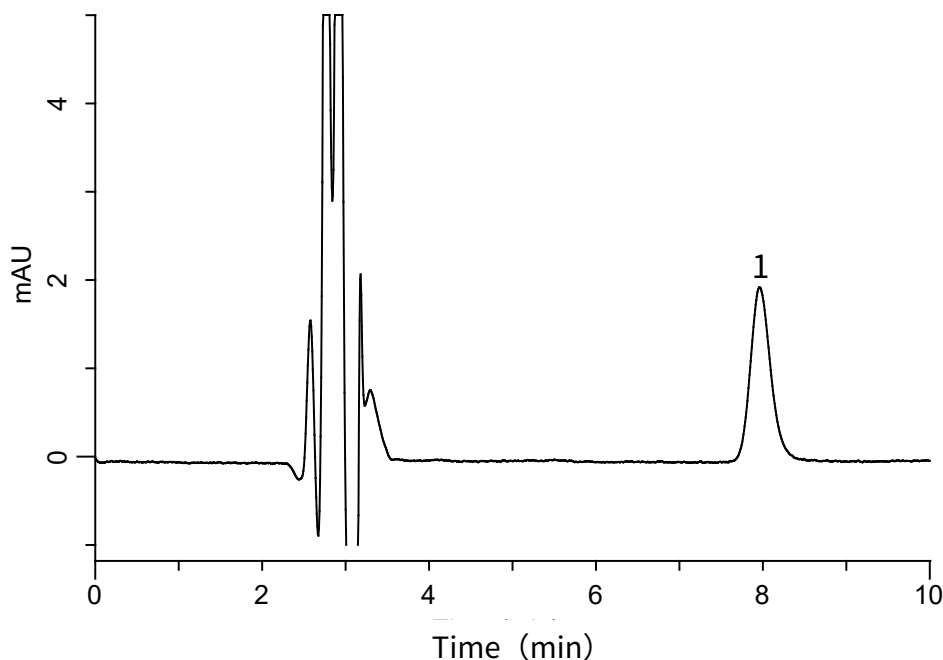
InertSearch™ for LC

Inertsil® Applications

Analysis of Mecobalamin

(Under the Condition of the Japanese Pharmacopoeia, Mecobalamin Tablets)

Data No. LB115-0919



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) CH₃OH
B) 40 mM L-Tartaric acid in H₂O
(pH 3.0, 40mM Na₂HPO₄ • 12H₂O in H₂O)
A/B = 37/63, v/v
Flow Rate : 0.6 mL/min
Col. Temp. : 40 °C
Detection : UV 264 nm (GL-7452 PDA Detector)
Injection Vol. : 100 μ L
Sample : Standard

Analyte:

1. Mecobalamin 0.28 mg/L

Theoretical plates : 5,196 ($\geq 3,000$)
Tailing factor : 1.20 (≤ 1.5)
RSD of the
peak area (%) (n=6) : 1.77 (≤ 2.0)