

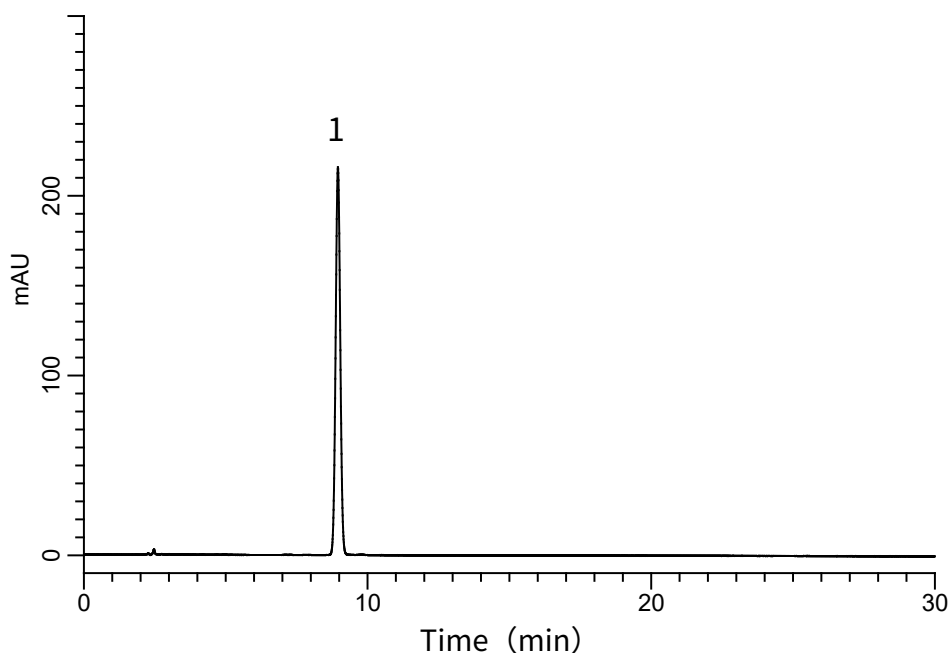
InertSearch™ for LC

Inertsil® Applications

Analysis of Simvastatin

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

Data No. LB120-0894



Conditions

System : GL-7400 HPLC system
Column : Inertsil WP300 C18
(5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-05846
Eluent : A) CH₃CN
B) Buffer*
A/B = 65/35, v/v
Flow Rate : 1.2 mL/min
Col. Temp. : 45 °C
Detection : UV 238 nm (GL-7452 PDA Detector)
Injection Vol. : 10 μ L
Sample : Standard

Analyte:

1. Simvastatin 100 mg/L

Theoretical plates : 13,936 ($\geq 6,000$)
Tailing factor : (0.9 $\leq$) 1.03 (≤ 1.1)
RSD of the
peak area (%) (n=6) : 0.52 (≤ 1.0)

* Dissolve 3.90 g of Sodium dihydrogen phosphate dihydrate in 900 mL of water.
Adjust pH 4.5 by phosphoric acid.
Add water to make 1000 mL.