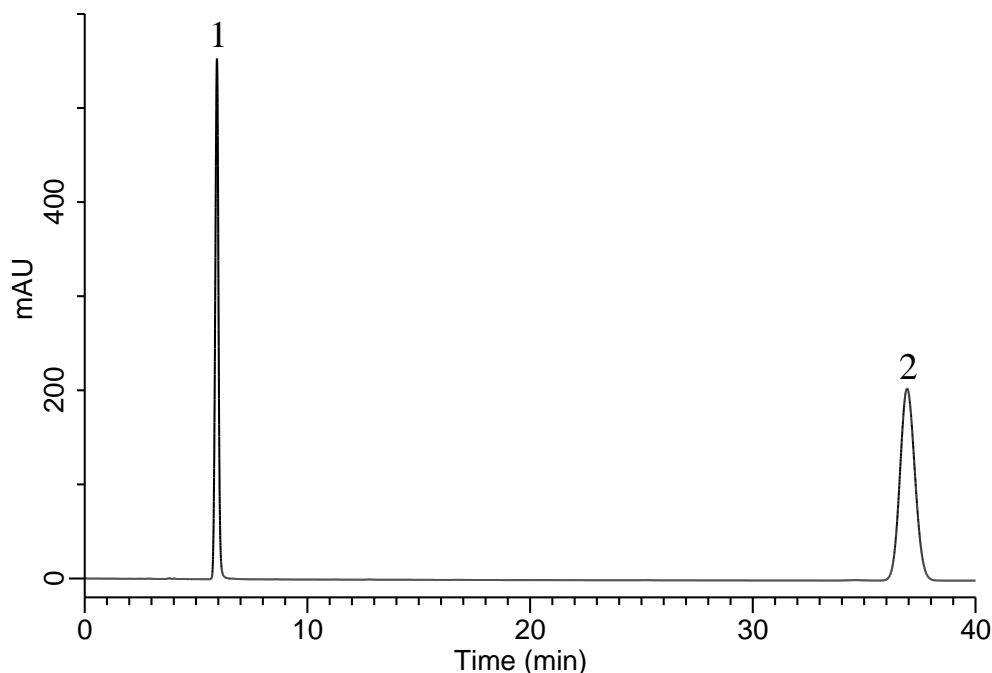


Analysis of Ampicillin Hydrate

(Under the Condition of Japanese Pharmacopoeia 18, Ampicillin Hydrate)



Conditions

System : Chromaster HPLC system
Column : Inertsil ODS-4
 (5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-03945
Eluent : Solution*
Flow Rate : 0.85 mL/min**
Col. Temp. : 25 °C
Detection : UV 230 nm
Injection Vol. : 10 μ L
Sample : Standard

Analyte:

1. Ampicillin Hydrate 1 mg/mL
 2. Guaifenesin 0.5 mg/mL

Resolution (1, 2) : 42 (≥ 40)
 RSD of the peak area ratio of 1 to 2 (%) (n = 6) : 0.2 (≤ 1.0)

*Dissolve 5.94 g of $(\text{NH}_4)_2\text{HPO}_4$ in 850 mL of water.
 Add 100 mL of acetonitrile.
 Adjust pH 5.0 by phosphoric acid.
 Add water to make 1000 mL.

**Adjusted the retention time of ampicillin to 6 minutes.