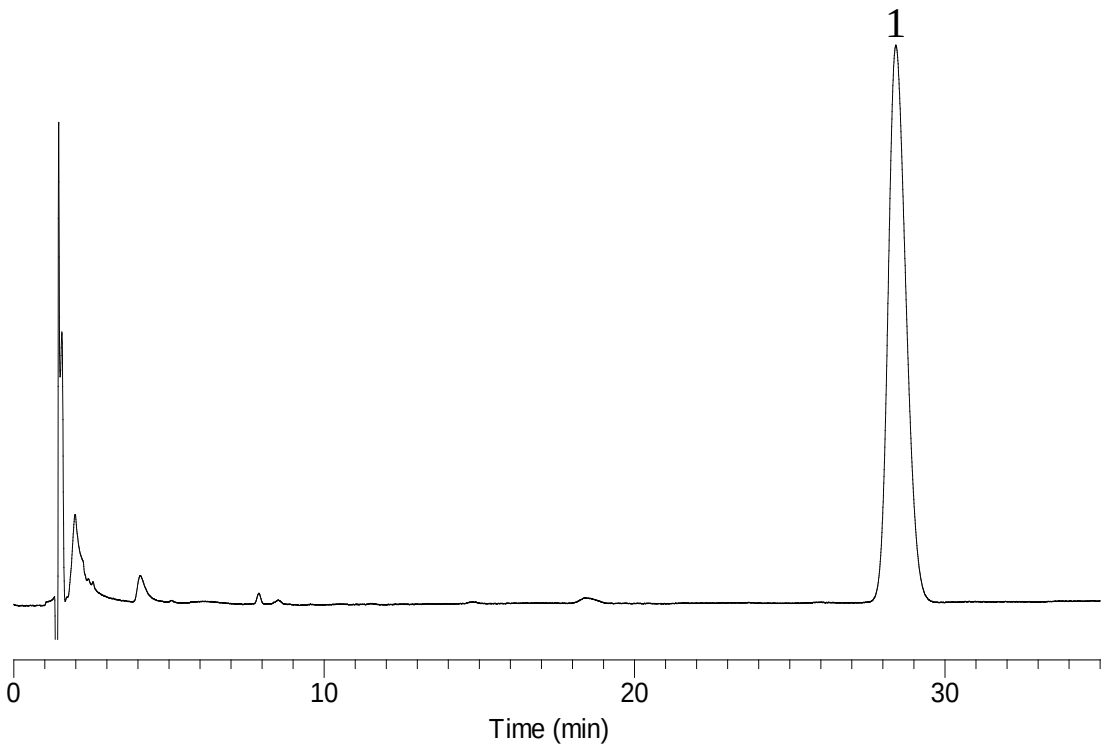
Analysis of Azithromycin (Based on the Condition of United States Pharmacopeia)



Conditions

System : GL-7400 HPLC system
Column : InertSustain C18 (5 µm, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : A) CH_3CN
: B) CH_3OH
: C) Buffer*
A/B/C = 9/3/8, v/v/v (Premix)
Flow rate : 1.5 mL/min
Col. Temp. : 50°C
Detection : UV 210 nm (GL-7452A PDA Detector)
Injection Vol. : 50 µL
Sample : Azithromycin Tablet

* Buffer: A solution containing 4.4 mg/mL of dibasic potassium phosphate and 0.5 mg/mL of sodium 1-octanesulfonate. Adjust with phosphoric acid to a pH of 8.20 ± 0.05.

Analyte:

1. Azithromycin

Theoretical plates : 11,086 (> 1,000)
Tailing factor : 1.23 (< 2.0)