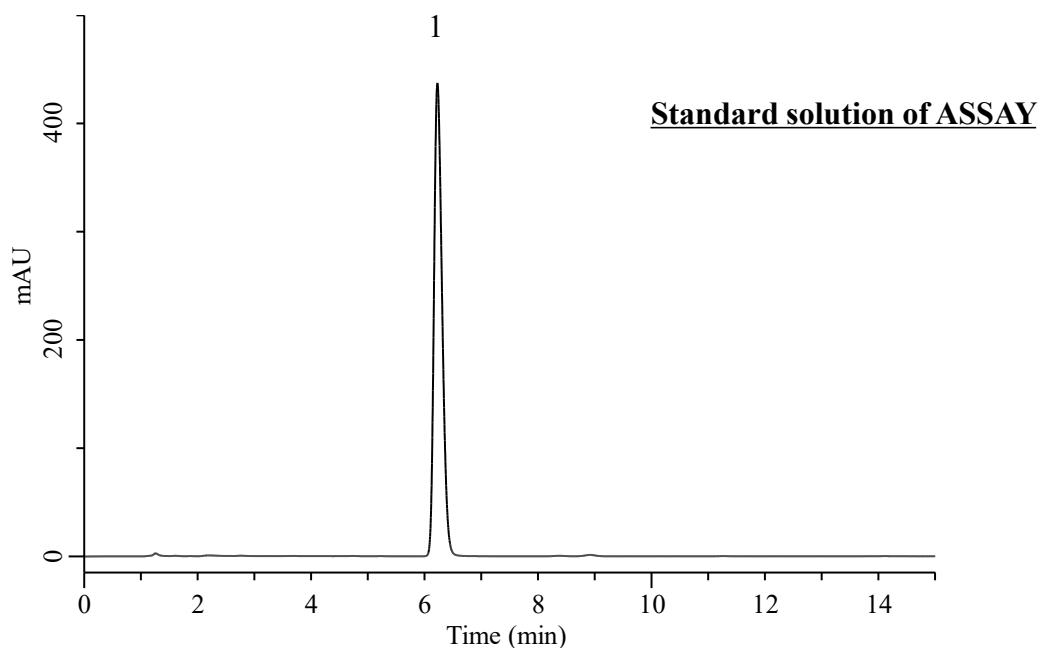


Analysis of Azithromycin

(Under the Condition of USP NF 2025 Issue 2 Mar, Azithromycin Tablets, Assay)



Conditions

System : Chromaster PLUS (HITACHI)
Column : Inertsil Hybrid-C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-76017
Eluent : CH₃CN/Buffer*= 65/35, v/v
Flow Rate : 2.0 mL/min
Col. Temp. : 50 °C
Detection : UV 210 nm (Chromaster 5410 AD UV)
Injection Vol. : 100 μ L
Sample : Standard in Eluent

Analyte:

1. Azithromycin 1 mg/mL

Tailing Factor : 1.29 ($\leq$ 2.0)

RSD of the peak area(%) (n=6) : 0.19 ($\leq$ 2.0)

Pressure: 13.0 MPa

*: Dissolve 4.6 g of monobasic potassium phosphate anhydrous in 900 mL of water.
 Adjust with 1 N sodium hydroxide to a pH of 7.5, and dilute with water to 1 L.