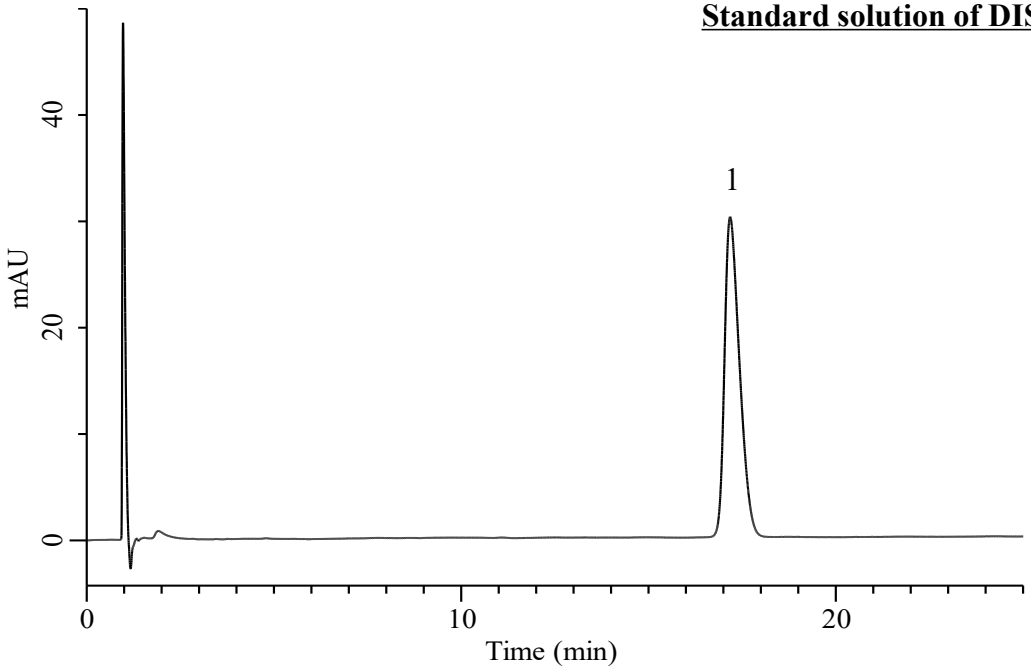
Analysis of Azithromycin

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

Standard solution of DISSOLUTION



Conditions

System	:	Chromaster PLUS (HITACHI)
Column	:	Inertsil Hybrid-C18 (GL Sciences Inc.) (5 µm, 150 x 4.6 mm I.D.)
Column Cat. No.	:	5020-76016
Eluent	:	CH_3CN/CH_3OH/Solution*= 9/3/8, v/v/v
Flow Rate	:	1.5 mL/min
Col. Temp.	:	50 ℃
Detection	:	UV 210 nm (Chromaster 5410 AD UV)
Injection Vol.	:	50 µL
Sample	:	Standard

Analyte:

1. Azithromycin 0.25 mg/mL

L: 500 mg/tablet

L/2000 = 500/2000 = 0.25 mg/mL

Tailing Factor : 1.46 (≦ 2.0)

RSD of the peak area (%)(n=6) : 0.19 (≦ 2.0)

*: 4.4 mg/mL of dibasic potassium phosphate and 0.5 mg/mL of sodium 1-octanesulfonate; adjusted with phosphoric acid to a pH of 8.20 ± 0.05.