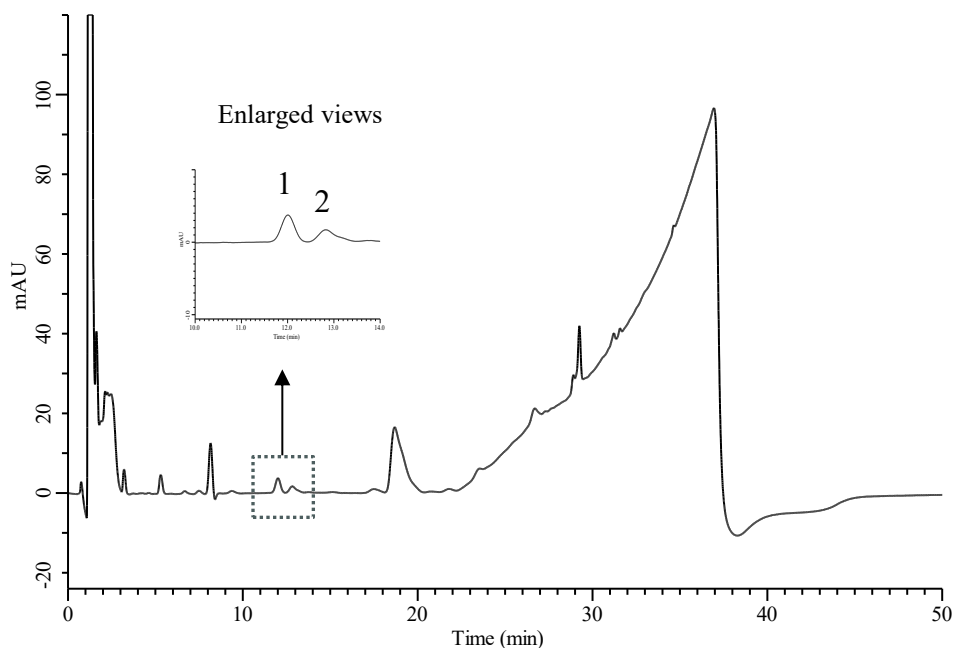


Analysis of Azithromycin

(Based on the Condition of USP-NF 2025 Issue 2 Mar, Azithromycin Tablets,
ORGANIC IMPURITIES)

The chromatogram was provided by LCGC BIOANALYTIC SOLUTIONS LLP, India.



Conditions

Column : Inertsil Hybrid-C18 (GL Sciences Inc.)
(3.5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-76042
Eluent : A) CH₃CN/CH₃OH/ammonium hydroxide
= 1800/200/1.2,v/v/v
B) H₂O/ammonium hydroxide
= 2000/1.2,v/v

Analyte:

1. Azithromycin related compound F
2. Desosaminylazithromycin

Resolution (1, 2) : 1.34 (≥ 1.0)

Time (min)	A (vol %)	B (vol %)
0.0	46	54
20.0	46	54
35.0	90	10
35.1	46	54
50.1	46	54

Flow Rate : 1.2 mL/min
Col. Temp. : 50 °C
Detection : UV 210 nm
Injection Vol. : 100 μ L
Sample : Standard