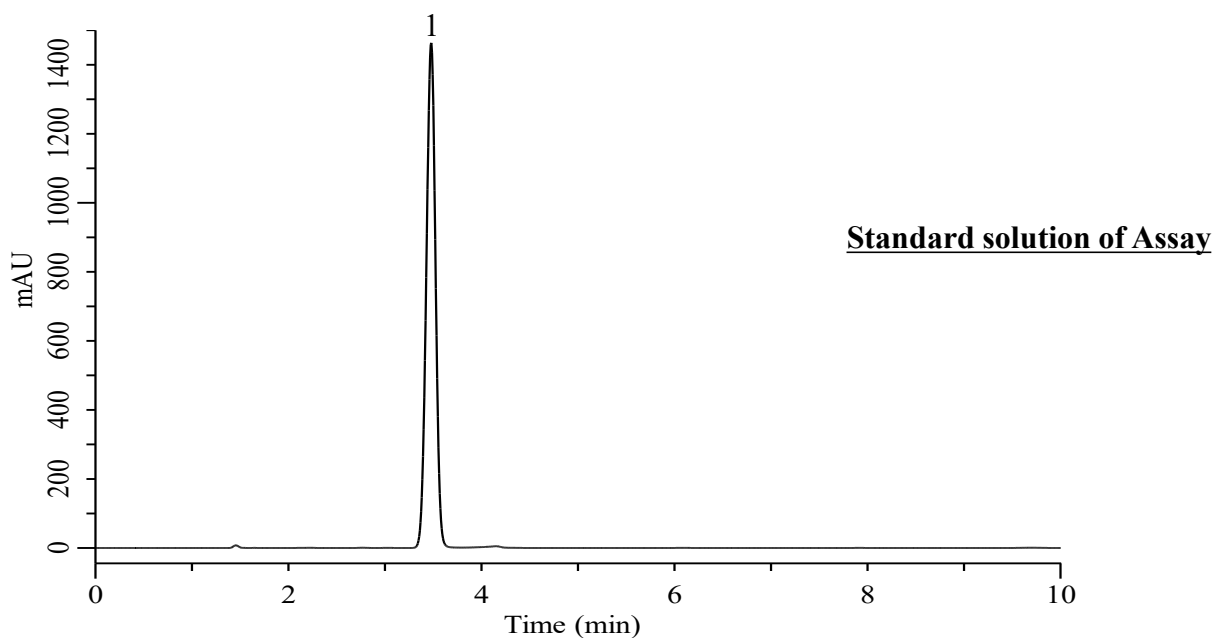


Analysis of Amoxicillin

(Under the Condition of the USPNP 2023 Issue 1,

Amoxicillin, Amoxicillin Capsules, Amoxicillin Tablets, Amoxicillin Boluses, ASSAY)



Conditions

System	: Chromaster PLUS (HITACHI)
Column	: InertSustain AQ-C18(GL Sciences Inc.) (5 μm, 250 x 4.0 mm I.D.)
Column Cat. No.	: 5020-89723
Eluent	: A) CH ₃ CN B) Solution* A/B = 1/24, v/v
Flow Rate	: 1.5 mL/min
Col. Temp.	: 40 °C
Detection	: UV 230 nm
Injection Vol.	: 10 μL
Sample	: Standard in solution*

Analyte:

1 . Amoxicillin	1.2 mg/mL
Tailing factor	: 0.95 (≤ 2.5)
RSD of the peak area (%) (n=6)	: 0.13 (≤ 2.0)

*: 6.8 g/L of monobasic potassium phosphate in water. Adjust with a 45%(w/w) solution of potassium hydroxide to a pH of 5.0 ± 0.1 .