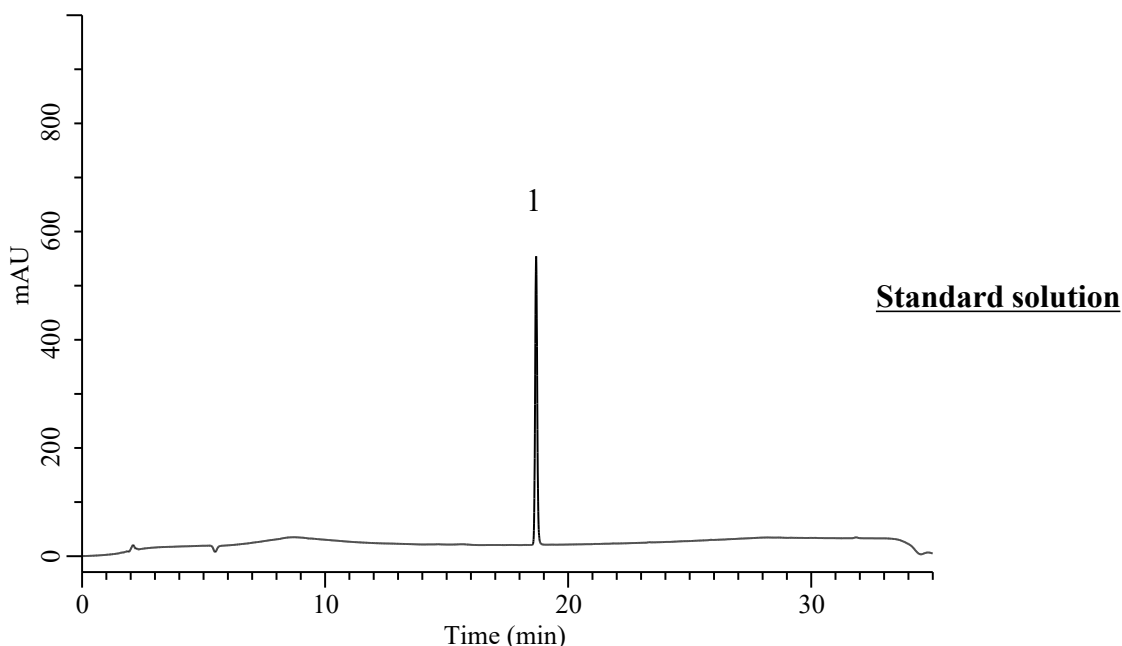


Analysis of Carbamazepine

(Under the Condition of the USP-NF 2024 ISSUE 3, Carbamazepine Extended-Release Capsules, ASSAY)



Conditions

System : Primaide HPLC system (HITACHI)
Column : InertSustainSwift C18(GL Sciences Inc.)
 (5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-88026
Eluent : A) CH₃OH
 B) H₂O/TEA/H₃PO₄=100/0.1/0.1 , v/v/v

Analyte:

1. Carbamazepine 0.08 mg/mL

Tailing factor : 1.07 ($\leq$ 2.0)

RSD of the peak area (%) (n=6) : 0.32 ($\leq$ 1.0)

Time (min)	A (vol %)	B (vol %)
0	10	90
2	10	90
25	90	10
30	90	10
31	10	90
35	10	90

Flow Rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 230 nm (1435 DAD)
Injection Vol. : 10 μ L
Sample : Standard