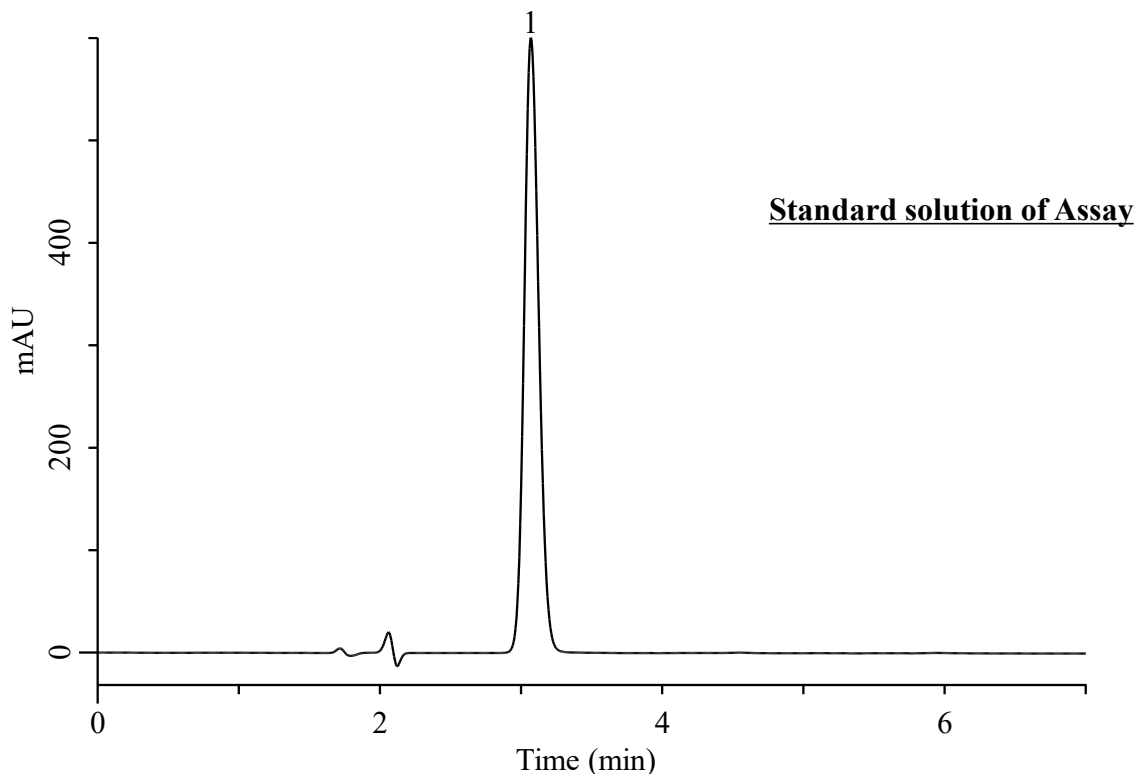


Analysis of Dobutamine

(Under the Condition of the USPNF 2023 Issue 2, Dobutamine Hydrochloride, ASSAY)



Conditions

System	: Chromaster PLUS (HITACHI)
Column	: Inertsil WP300 C18 (GL Sciences Inc.) (10 μm, 300 x 3.9 mm I.D.)
Column Cat. No.	: 5020-90660
Eluent	: A) CH ₃ CN B) Solution* A/B = 20/80, v/v
Flow Rate	: 1.5 mL/min
Col. Temp.	: 40 °C
Detection	: UV 280 nm (Chromaster 5430 DAD)
Injection Vol.	: 20 μL
Sample	: Standard in H ₂ O

Analyte:

1. Dobutamine	0.5 mg/mL
Tailing factor	: 1.14 (≤ 2.0)
RSD of the peak area (%) (n=6)	: 0.12 (≤ 0.73)

*: Transfer 23g of monobasic ammonium phosphate to a 2 L volumetric flask, and add 1900 mL of water. Adjust with phosphoric acid to a pH of 2.2, and dilute with to volume.