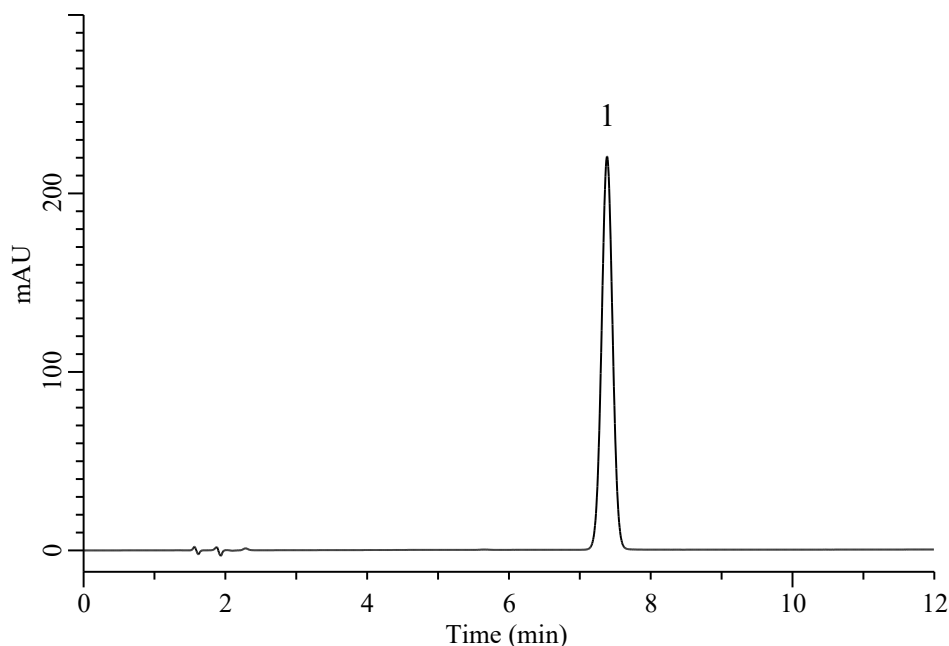


Analysis of Acetazolamide

(Under the Condition of USP-NF 2024 Issue 1, Acetazolamide Tablets, ASSAY)



Conditions

System	: Chromaster PLUS (HITACHI)	Analyte:	
Column	: InertSustain C18 (GL Sciences Inc.) (5 μm, 250 x 4.6 mm I.D.)	1. Acetazolamide	0.1 mg/mL
Column Cat. No.	: 5020-07346		
Eluent	: Solution*		
Flow Rate	: 2.0 mL/min	Tailing factor	: 0.99 (≤ 1.5)
Col. Temp.	: 40 °C		
Detection	: UV 254 nm (Chromaster 5430 DAD)	RSD of the peak area (%) (n=6)	: 0.44 (≤ 1.0)
Injection Vol.	: 20 μL		
Sample	: Standard**		

* : Dissolve 4.1 g of anhydrous sodium acetate in 950 mL of water, add 20 mL of methanol and 30 mL of acetonitrile, and mix. Adjust with glacial acetic acid to a pH of 4.0.

** : Acetazolamide into a suitable volumetric flask, add 0.5 N sodium hydroxide equivalent to 10% of the final volume, and dilute with water to volume.