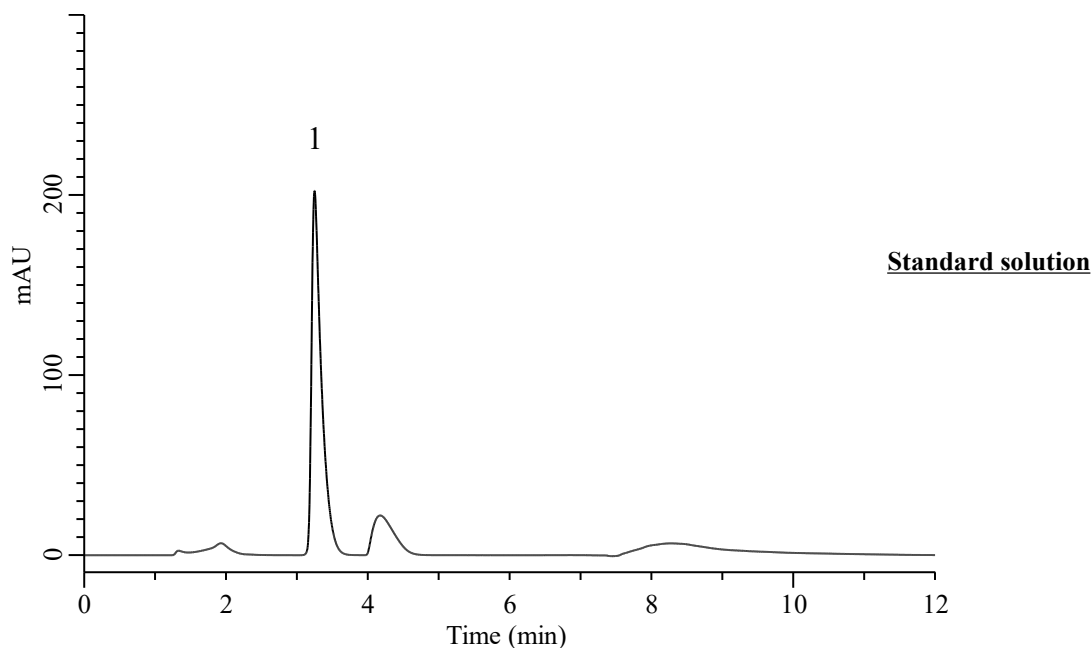


Analysis of Ascorbic acid

(Under the Condition of draft for USP, Water-Soluble Vitamins Chewable Gels, Method 1)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain C8 (GL Sciences Inc.)
 (3.5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-89995
Eluent : A) CH₃OH
 B) Solution*

Analyte:

1. Ascorbic acid 0.05 mg/mL

RSD of the peak area (%) (n=6) : 0.32 ($\leq$ 2.0)

Time (min)	A (vol %)	B (vol %)
0	0	100
3.0	0	100
5.0	100	0
6.0	50	50
7.0	0	100
12.0	0	100

Flow Rate : 0.8 mL/min
Col. Temp. : 40 °C
Detection : UV 245 nm (Chromaster 5410 UV)
Injection Vol. : 10 μ L
Sample : Standard in Solution**

*: 7.8 g/L of sodium phosphate monobasic dihydrate in water. Adjust with phosphoric acid to a pH of 2.5.

**: Dissolve 73 g of metaphosphoric acid in 800 mL of water, add 84 mL of glacial acetic acid, and dilute with water to 1000 mL.