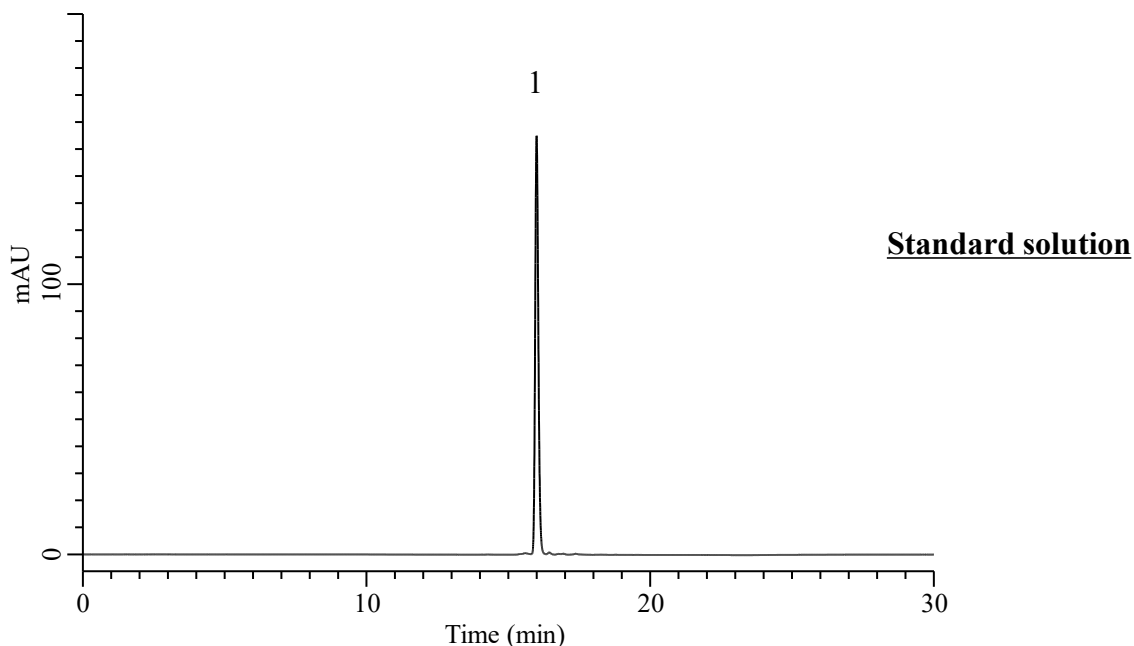


Analysis of Cyanocobalamin

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



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustainSwift C18 (GL Sciences Inc.)
 (3.5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-90740
Eluent : A) CH₃CN
 B) 0.025%TFA in H₂O

Analyte:

1. Cyanocobalamin 0.5 μ g/mL

RSD of
 the peak area of 1 (%) (n=6) : 0.04 ($\leq$ 3.0)

Time (min)	A (vol %)	B (vol %)
0.0	0	100
3.5	0	100
11.0	15	85
19.0	25	75
20.0	10	90
24.0	0	100
30.0	0	100

Flow Rate : 1.0 mL/min
Col. Temp. : 40 $^{\circ}$ C
Detection : VIS 550 nm (Chromaster 5420 UV-VIS)
Injection Vol. : 80 μ L
Sample : Standard in H₂O