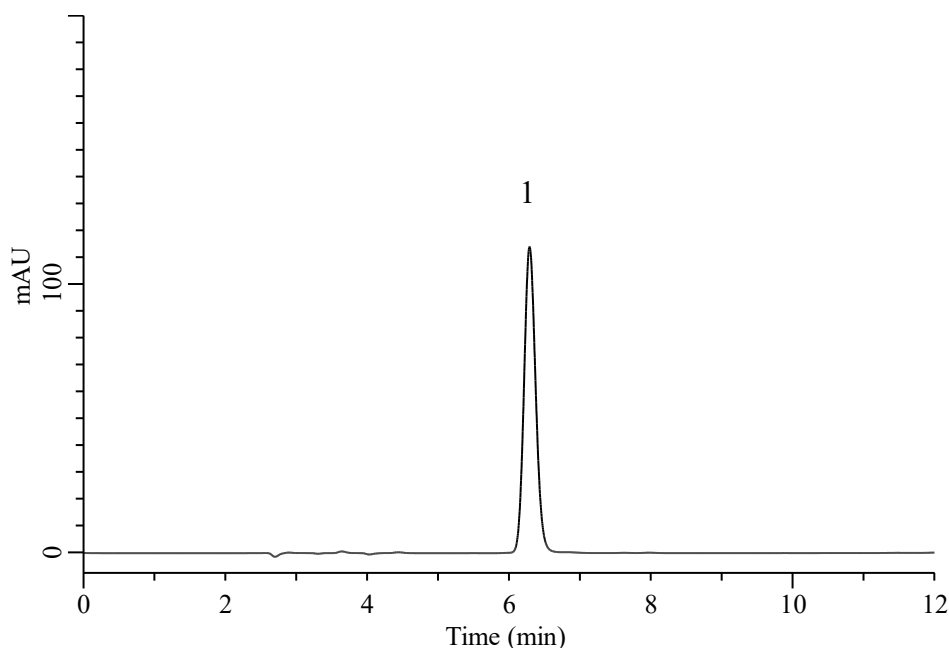


Analysis of Riboflavin

(Under the Condition of USP41-NF36, Oil- and Water-Soluble Vitamins Capsules_
RIBOFLAVIN_Method 2)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : Solution*/ CH₃OH=13/7**, v/v
Flow Rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 254 nm (Chromaster 5420 UV-VIS)
Injection Vol. : 20 μ L
Sample : Standard in Solution*/CH₃OH=3/1, v/v

Analyte:

1. Riboflavin 20 μ g/mL

RSD of the peak area(%)(n=6) : 0.07 ($\leq$ 3.0)

*: 6.8 g/L of sodium acetate in water.

**: Add 2 mL of triethylamine per L of the mixture, and adjust with glacial acetic acid to a pH of 5.2.