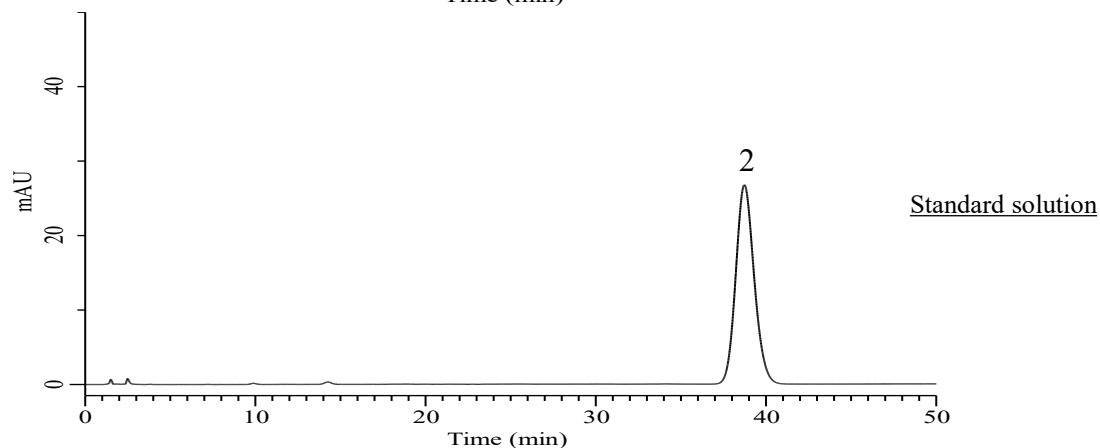
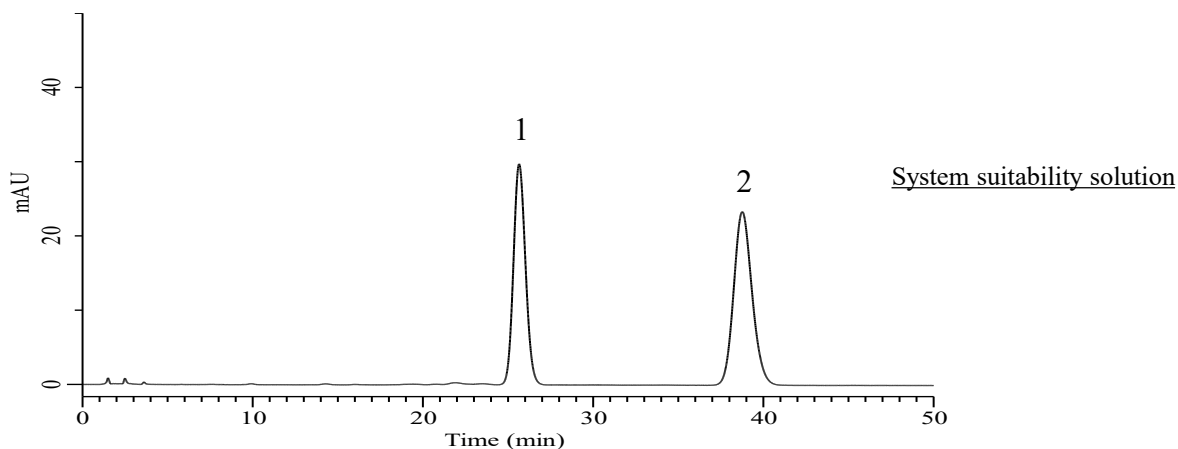


Analysis of Vitamin K1

(Under the Condition of USP41-NF36, Oil- and Water-Soluble Vitamins Capsules, PHYTONADIONE)



Conditions

System : Primaide (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.)
 (5 μ m, 100 x 8.0 mm I.D.)
Column Cat. No. : 5020-90640
Eluent : CH₃OH/H₂O = 19/1, v/v
Flow Rate : 2.0 mL/min
Col. Temp. : 40 °C
Detection : UV 254 nm (Primaide 1410 UV)
Injection Vol. : 100 μ L
Sample : Standard in CH₃OH

Analyte:

1. α -tocopherol acetate 0.65 mg/mL
 2. Vitamin K1 (phytonadione) 20 μ g/mL

Relative Retention time
 α -tocopherol acetate : 0.66
 Vitamin K1 (phytonadione) : 1.0

Resolution (1,2) : 8.11 (≥ 5)

RSD of
 the peak area of 3 (%) (n=6) : 0.40 (≤ 3.0)