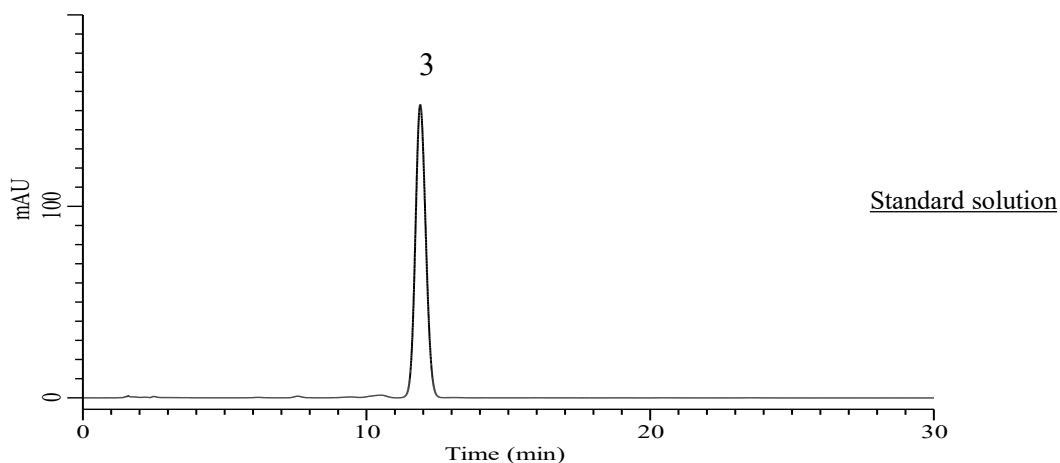
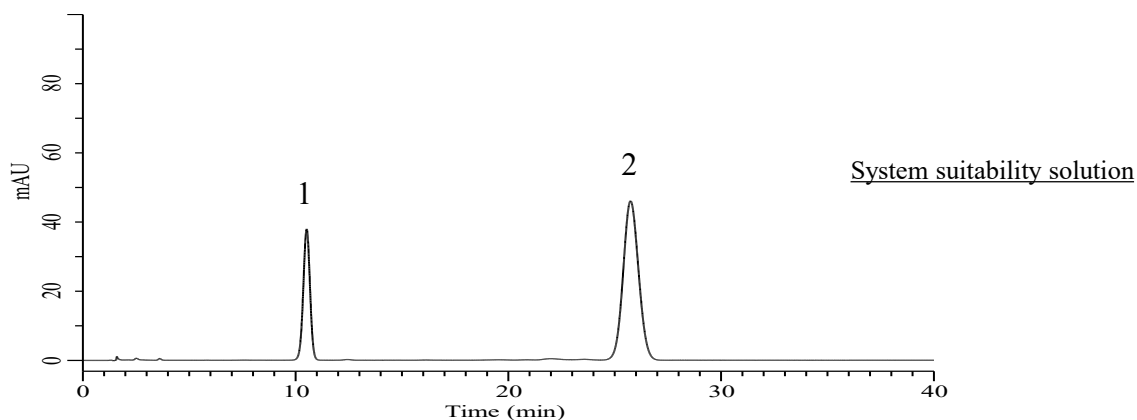


Analysis of Vitamin E

(Under the Condition of USP41-NF36, Oil- and Water-Soluble Vitamins Capsules, Vitamin E, Method 1)



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/Solution*=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. Ergocalciferol	6.5 μ g/mL
2. α -tocopherol acetate	1 mg/mL
3. α -tocopherol succinate	2 mg/mL

Relative Retention time

Ergocalciferol	: 0.41
α -tocopherol acetate	: 1.0

Resolution (1,2)	: 15.9 ($\geq$ 12)
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Tailing factor

the peak of 1	: (0.8 $\leq$) 0.99 ($\leq$ 1.2)
the peak of 2	: (0.8 $\leq$) 1.06 ($\leq$ 1.2)

RSD of

the peak area of 3 (%) (n=6)	: 0.23 ($\leq$ 3.0)
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* : Phosphoric acid solution (1 in 100) in water.