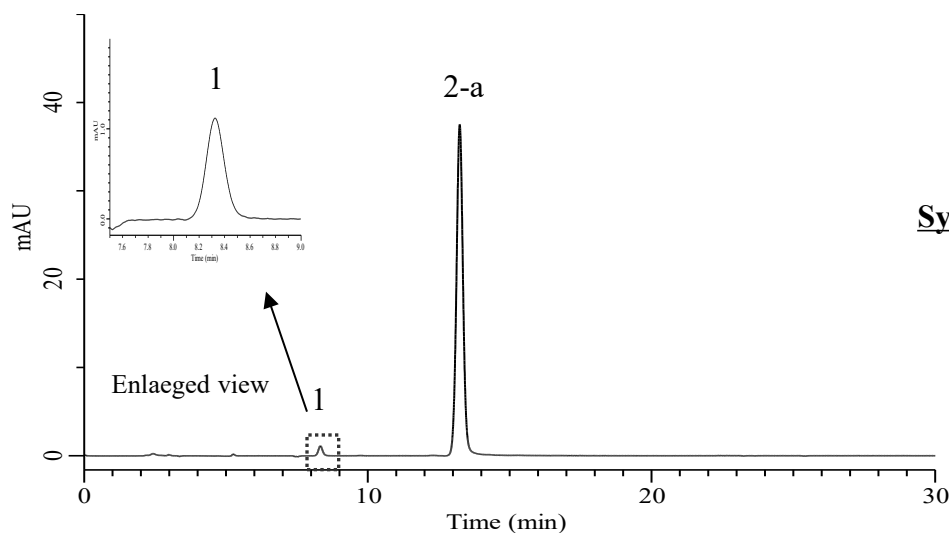
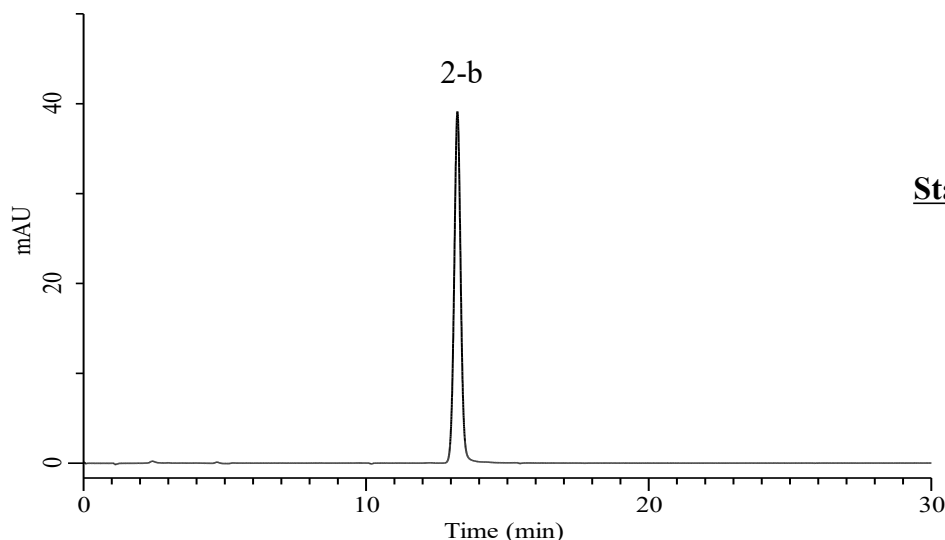


Analysis of Cholecalciferol (Vitamin D)

(Under the Condition of USP41-NF36, Oil- and Water-Soluble Vitamins Capsules, CHOLECALCIFEROL or ERGOCALCIFEROL (VITAMIN D), Method 1)



System suitability solution



Standard solution

Conditions

System : Chromaster PLUS (HITACHI)
Column : Inertsil NH2 (GL Sciences Inc.)
 (3 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-05495
Eluent : n-Hexane/2-Propanol = 99/1, v/v
Flow Rate : 1.0 mL/min
Col. Temp. : 40 $^{\circ}$ C
Detection : UV 265 nm (Chromaster 5420 UV-VIS)
Injection Vol. : 100 μ L
Sample : Standard in n-Hexane

Analyte:

1. corresponding precursor
 2-a. Cholecalciferol 2.0 μ g/mL
 2-b. Cholecalciferol 2.0 μ g/mL

Resolution (1,2-a) : 14.3 (≥ 10)

RSD of the
 peak area of 2-b (%) (n=6) : 0.40 (≤ 3.0)