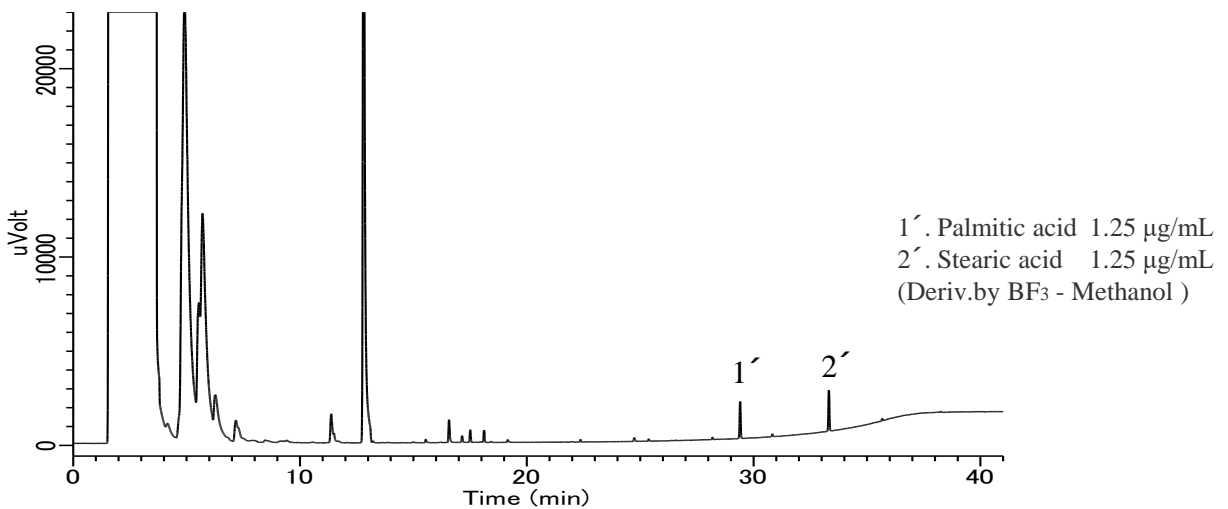
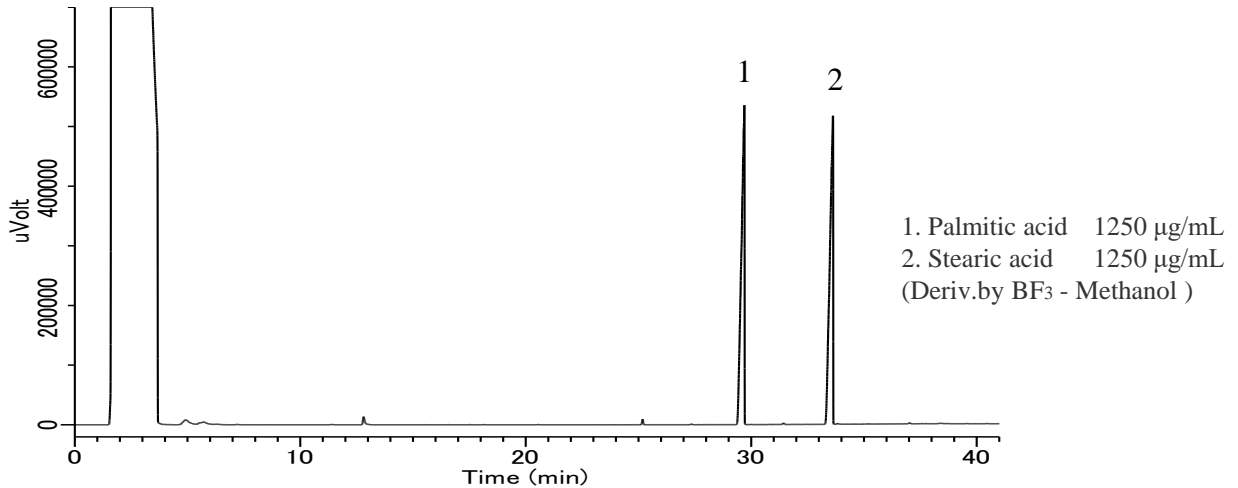


Analysis of Stearic Acid

(Under the Condition of the Japanese Pharmacopoeia 16)



Conditions

System : GC-FID
Column : InertCap Pure-WAX
 0.32 mm I.D. x 30 m df = 0.50 µm
Col. Cat. No. : 1010-68244
Col. Temp. : 70 °C(2 min) – 5 °C/min – 240 °C(5 min)
Carrier Gas : He 80 kPa
Injection : Splitless 2 min
 220 °C
Detection : FID Range 10¹
 260 °C
Sample size : 1.0 µL
Sample : Standard

Analyte

1. Palmitic acid
 2. Stearic acid
 (Deriv.by BF₃ - Methanol)

Resolution (1, 2) : 15.1 (≥ 5.0)
 Relative retention time (1 to 2) : 0.88 (about 0.9)
 The peak area ratio of 2' to 2 (%) : (0.05≤) 0.13 (≤0.15)
 RSD of the peak area (1)(%)(n=6) : 1.25 (≤3.0)
 RSD of the peak area (2)(%)(n=6) : 1.22 (≤3.0)
 RSD of the peak area ratio
 of 2 to 1 (%) (n=6) : 0.05 (≤1.0)