

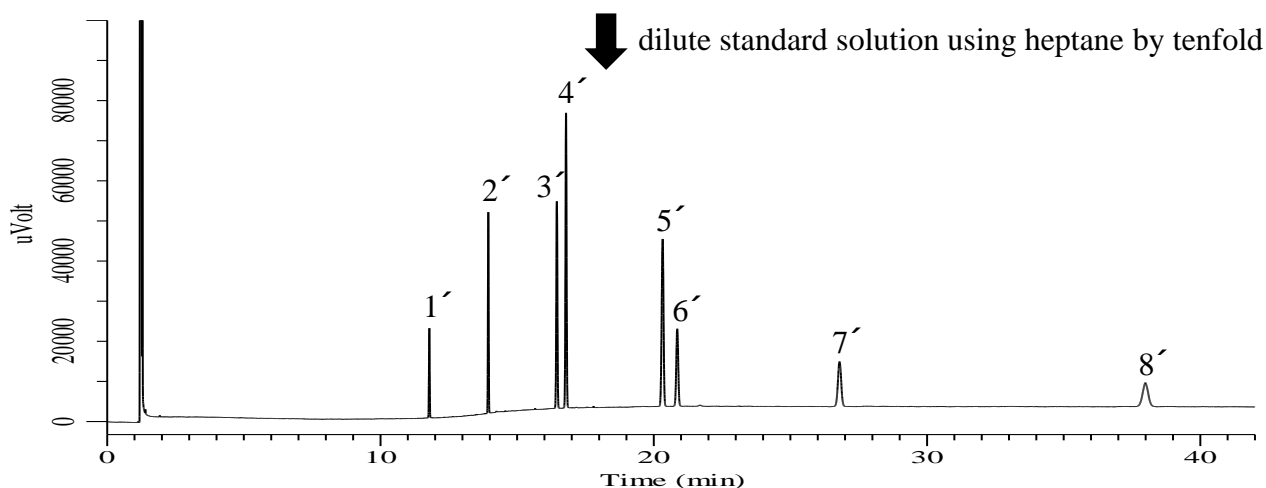
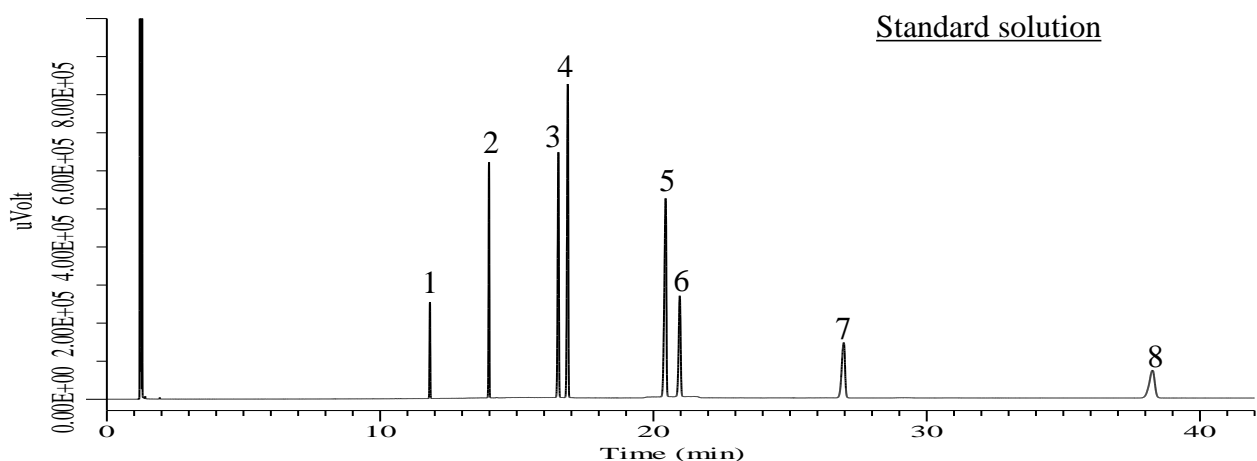
InertSearch™ for GC

InertCap® Applications

Analysis of Polysorbate 80

(Under the Condition of Japanese Pharmacopoeia 16)

Data No. GA 270-0904



Conditions

System : GC-FID
Column : InertCap Pure-WAX
0.32 mm I.D. x 30 m df = 0.5 μ m
Col. Cat. No. : 1010-68244
Col. Temp. : 80 °C - 10 °C/min - 220°C (40 min)
Carrier Gas : He 110 kPa
Injection : Split 1:20
250 °C
Injection Vol. : 1 μ L
Detection : FID Range 10¹⁰
250 °C
Sample : Standard
Analyte in Heptane

Analyte

1. Myristic acid methyl ester
2. Palmitic acid methyl ester
3. Stearic acid methyl ester
4. Oleic acid methyl ester
5. Arachidic acid methyl ester
6. Eicosenoic acid methyl ester
7. Behenic acid methyl ester
8. Lignoceric acid methyl ester

Resolution (3, 4) : 4.21 (≥ 1.8)
Theoretical plates (3) : 690,723 ($\geq 30,000$)
Signal-to-noise ratio (1') : 229 (≥ 5)