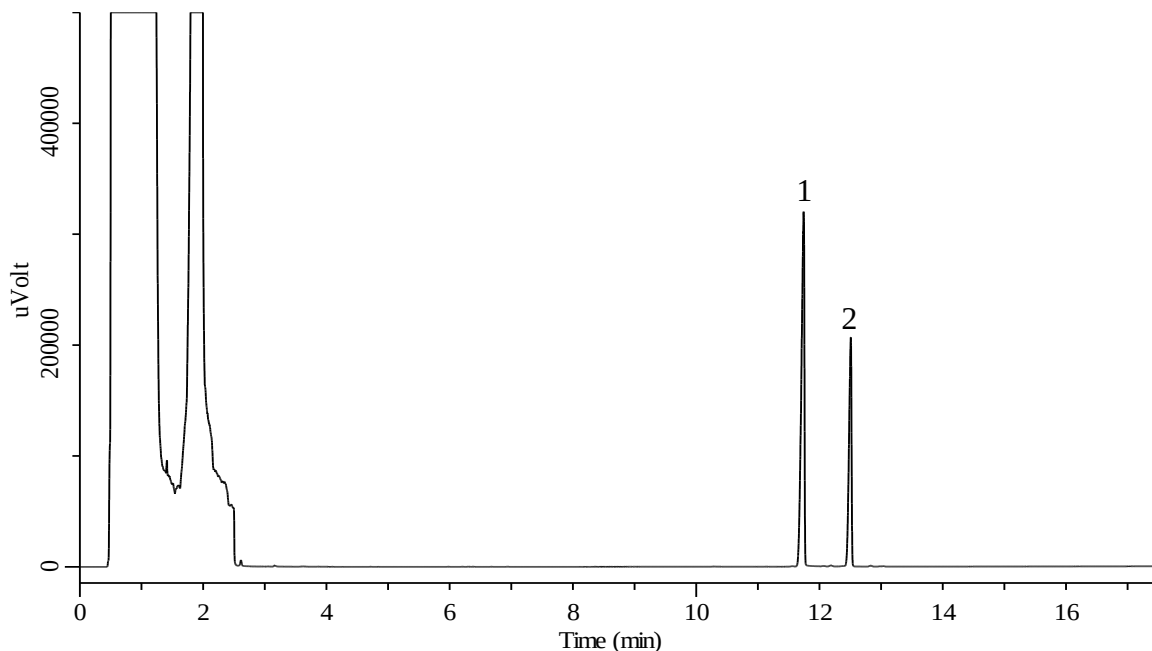


Analysis of Anhydrous Lactose

(Under the Condition of Japanese Pharmacopoeia 16)

Data No. GA250-0904



Conditions

System : GC-FID
Column : InertCap 5
0.25 mm I.D. x 15 m df = 0.25 μ m
Col. Cat. No. : 1010-18122
Guard Column : Intermediate-polarity deactivated fused silica capillary tube
0.53 mm I.D. x 2 m
Col. Temp. : 80 °C(1 min) - 35 °C/min - 150 °C - 12 °C/min - 300 °C(2 min)
Carrier Gas : He 220 kPa
Injection : Splitless 2 min
275 °C
Detection : FID Range 10¹
325 °C
Sample size : 0.5 μ L
Sample : Standard

Analyte

1. α -Lactose 357 mg/L
2. β -Lactose 357 mg/L
(Deriv.by Pyridine/TMSI/DMSO (117:44:39))

Resolution (1, 2) : 9.4 (≥ 3.0)
Relative retention time (1 to 2) : 0.93
RSD of the peak area (2)(%)(n=6) : 0.19 (≤ 1.0)