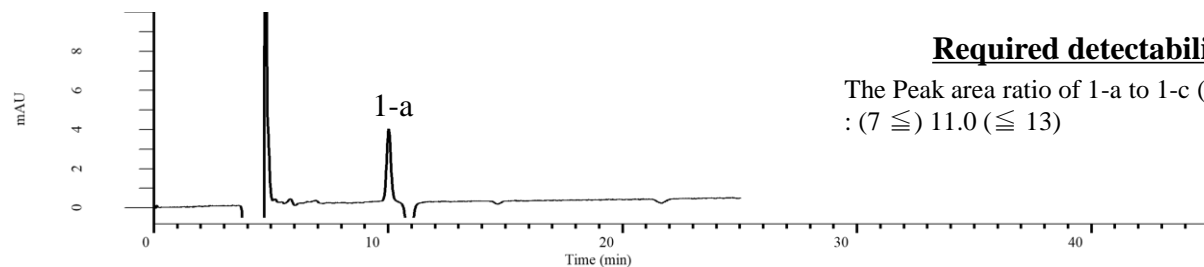


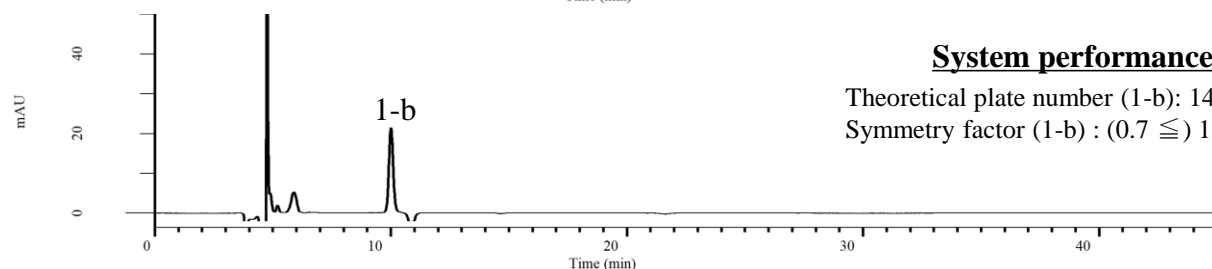
Analysis of Doripenem

(Under the Condition of the Japanese Pharmacopoeia 18th, Doripenem Hydrate)



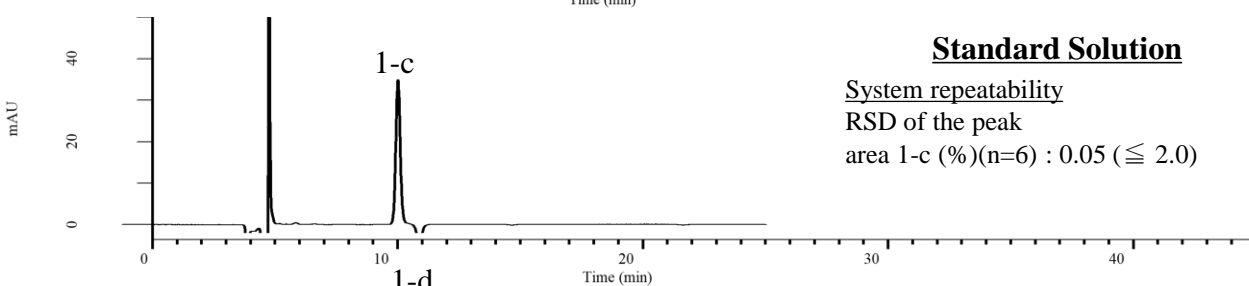
Required detectability

The Peak area ratio of 1-a to 1-c (%)
: $(7 \leq) 11.0 (\leq 13)$



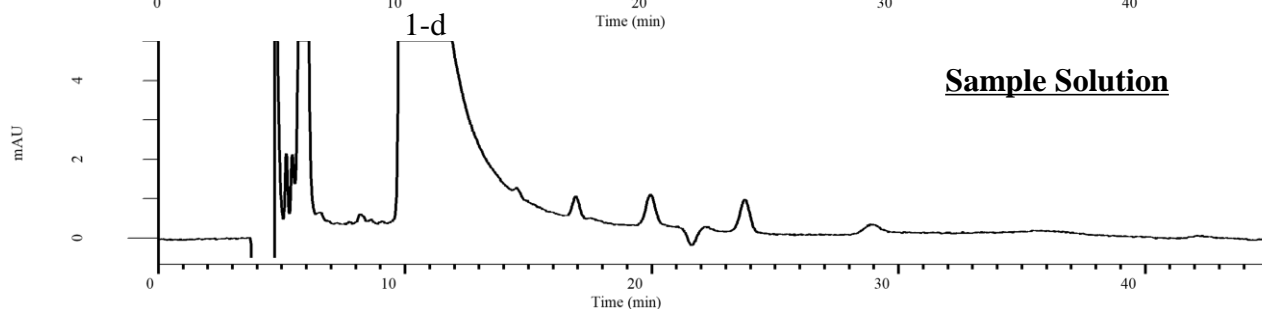
System performance

Theoretical plate number (1-b): $14,338 (\geq 5,000)$
Symmetry factor (1-b) : $(0.7 \leq) 1.08 (\leq 1.3)$



Standard Solution

System repeatability
RSD of the peak
area 1-c (%) (n=6) : $0.05 (\leq 2.0)$



Sample Solution

Conditions

System : Chromaster HPLC system (HITACHI)
Column : InertSustain AX-C18 (GL Sciences Inc.)
 (5 μ m, 150 x 4.6 mmI.D.)
Column Cat. No. : 5020-91014
Eluent : A) CH₃CN
 B) (0.45% H₃PO₄ + 1% Triethylamine) in H₂O
 A/B = 5/95, v/v
Flow Rate : 0.5 mL/min
Col. Temp. : 40 °C
Detection : UV 215 nm
Injection Vol. : 20 μ L
Sample : Standard

Analyte:

1. Doripenem