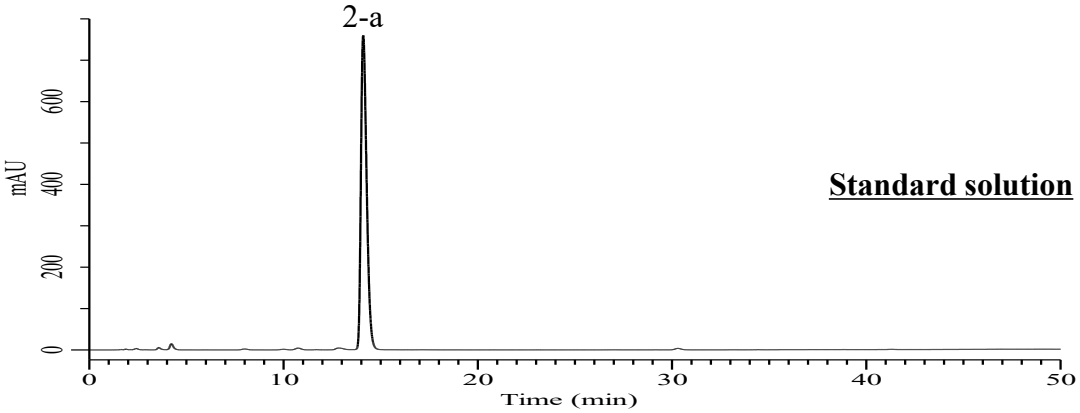
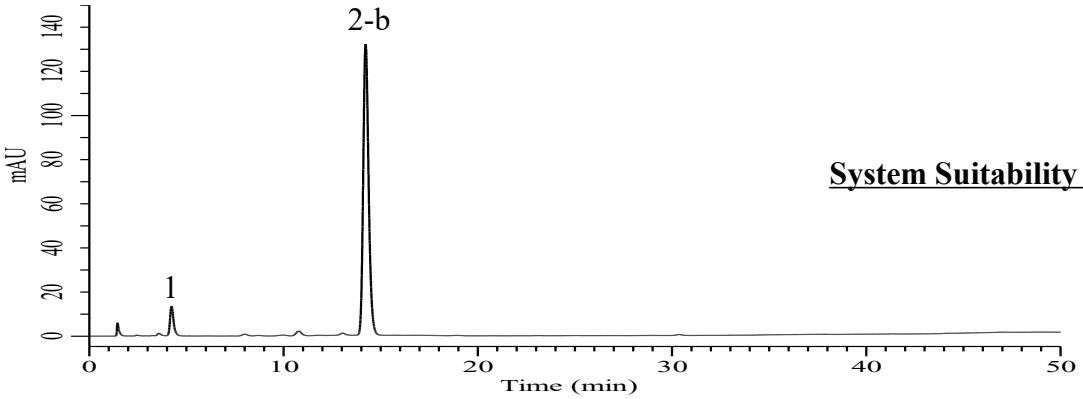
Analysis of Cefotaxime Sodium

(Under the Condition of the Japanese Pharmacopoeia 18th, Cefotaxime Sodium, ASSAY)



Standard solution



System Suitability solution

Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain C18(GL Sciences Inc.)
(5 µm, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-07345
Eluent : A) CH_3OH/ Solution* = 14/86
B) CH_3OH/ Solution* = 40/60

Time(min)	A(vol%)	B(vol%)
0	100	0
7	100	0
9	80	20
16	80	20
45	0	100
50	0	100

Flow Rate : 1.2 mL/min
Col. Temp. : 30 °C
Detection : UV 235 nm (Chromaster 5420)
Injection Vol. : 10 µL
Sample : Standard in Eluent A

*: 7.1 g/L of anhydrous dibasic sodium phosphate in water.
Adjust with phosphate acid to a pH of 6.25.

Analyte:

1. Desacetylcefotaxime
2-a. Cefotaxime Sodium 0.8 mg/mL
2-b. Cefotaxime Sodium

Tailing factor (2-b) : 1.23 (≦ 2.0)

Resolution (1,2-b) : 24.7 (≧ 20)

RSD of the peak area of (2-a) (%)(n=6) : 0.13 (≦ 2.0)