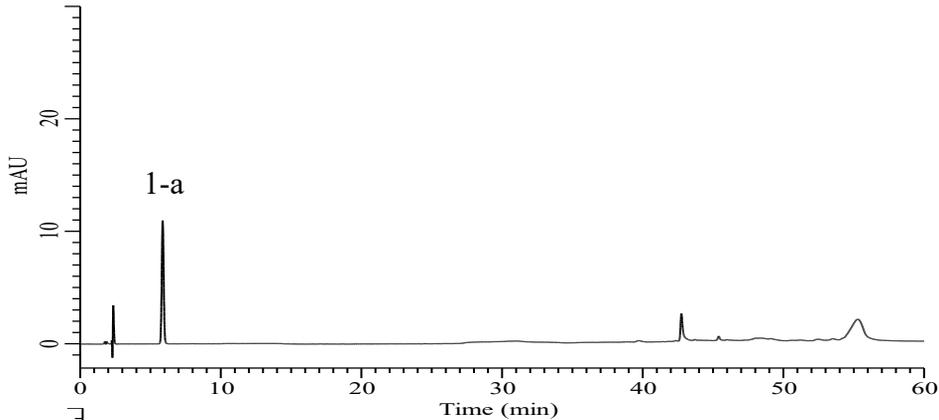
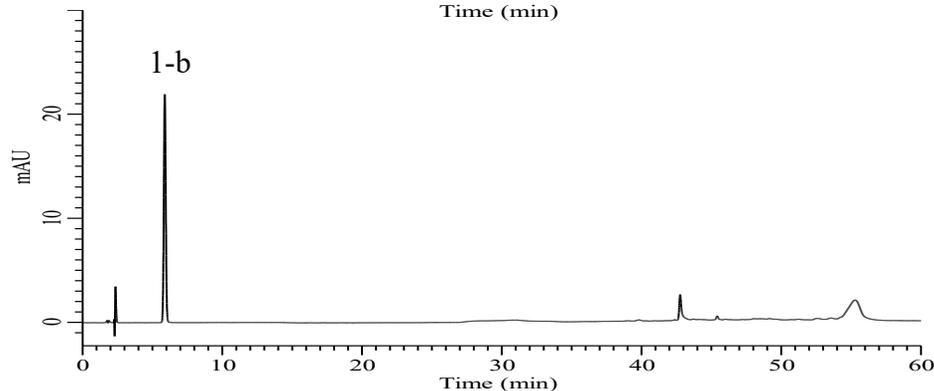


Analysis of Acetaminophen

(Under the Condition of draft for USP PF52(1), Acetaminophen Injection, ORGANIC IMPURITIES)



Sensitivity solution



Standard solution

Conditions

System : Primaide (HITACHI)
Column : InertSustainSwift C18 (GL Sciences Inc.)
 (5 μ m, 150 x 4.6 mm I.D.)
Column Cat. No. : 5020-88026
Eluent : A) CH₃CN/H₂O=75/25, v/v
 B) Buffer*

Time (min)	A (vol %)	B (vol %)
0.0	8	92
10.0	8	92
30.0	22	78
40.0	45	55
50.0	50	50
51.0	8	92
60.0	8	92

Flow Rate : 1.0 mL/min
Col. Temp. : 35 °C
Detection : UV 245 nm (Primaide 1435 DAD)
Injection Vol. : 20 μ L
Sample : Standard in (Eluent A/Eluent B=20/80, v/v)

Analyte:

1-a. Acetaminophen 1.5 μ g/mL
 1-b. Acetaminophen 3.0 μ g/mL

Signal-to-noise ratio of 1-a : 3982.0 (\geq 10)

RSD of
 the peak area of 1-b (%) (n=6) : 0.27 (\leq 5.0)

*: Dissolve 9 g of sodium phosphate, dibasic, anhydrous and 5.3 g of sodium phosphate, monobasic, dihydrate in 1000 mL of water. Adjust with Solution** to a pH of 6.5 \pm 0.05.

** : Dilute 5 mL of phosphoric acid with water to 50 mL.