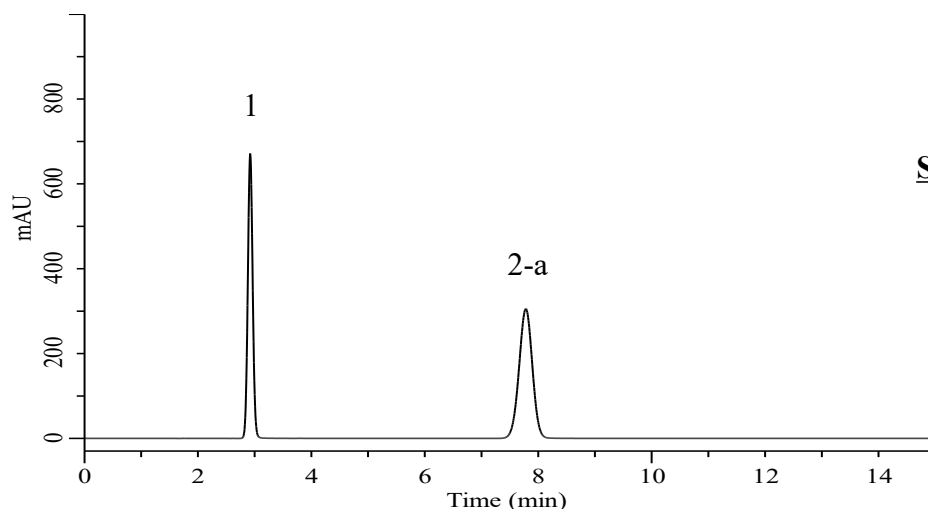
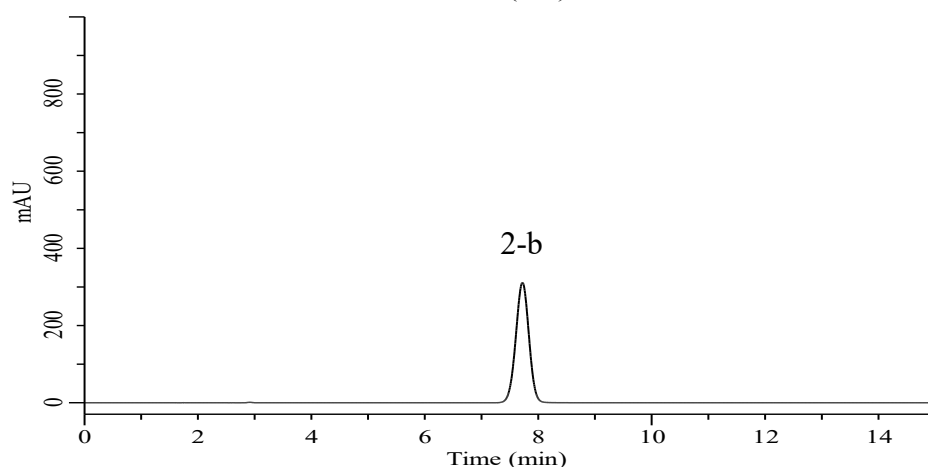


Analysis of Acyclovir

(Under the Condition of draft for USP, Acyclovir Capsules, ASSAY)



System suitability solution



Standard solution

Conditions

System : Primaide (HITACHI)
Column : Inertsil WP300 C18 (GL Sciences Inc.)
 (10 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-90662
Eluent : 20 mM CH₃COOH in H₂O
Flow Rate : 1.8 mL/min
Col. Temp. : 40 °C
Detection : UV 254 nm (1435 DAD)
Injection Vol. : 20 μ L
Sample : Standard in
 (0.1 N sodium hydroxide/H₂O = 1/9 *)

Analyte:

1. Guanine	0.1 mg/mL
2-a. Acyclovir	0.1 mg/mL
2-b. Acyclovir	0.1 mg/mL

Relative retention times

1. Guanine	: 0.37
2-a. Acyclovir	: 1.0

Resolution (1, 2-a)	: 16.48 ($\geq$ 2.0)
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Tailing factor (2-b)	: 0.98 ($\leq$ 2.0)
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RSD of
 the peak area of 2-b (%) (n=6) : 0.21 ($\leq$ 1.0)

* Dissolve in 0.1 N sodium hydroxide, and dilute with water to volume.