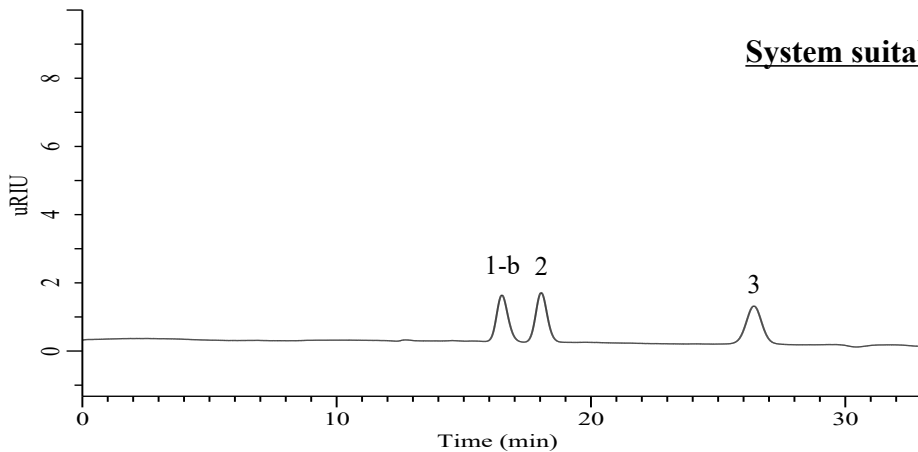
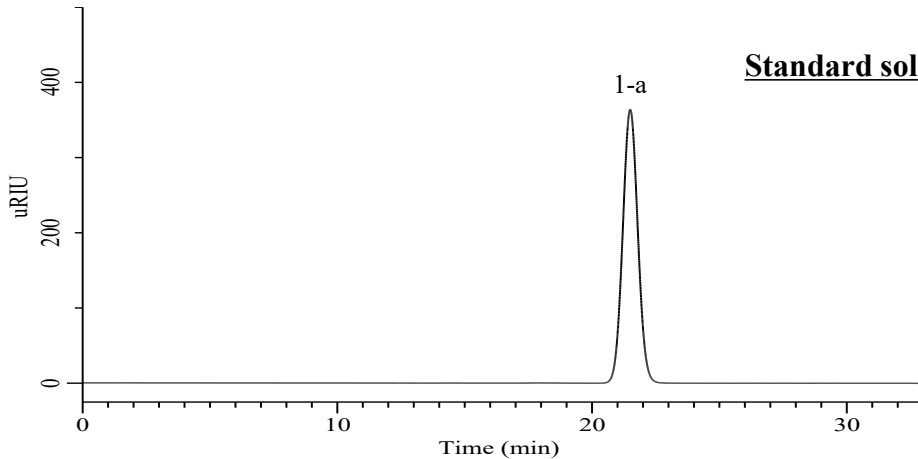


Analysis of Dextrose

(Under the Condition of USP-NF 2024 Issue 2, Dextrose, ASSAY)



Conditions

System : Chromaster PLUS HPLC system (HITACHI)
Column : InertSphere Sugar-2 (GL Sciences Inc.)
 (9 μ m, 300 x 7.8 mm I.D.)
Column Cat. No. : 5020-11000
Eluent : H₂O
Flow Rate : 0.3 mL/min
Col. Temp. : 85 °C
Detection : RI
Injection Vol. : 20 μ L
Sample : Standard

Analyte:

1-a. Dextrose 30 mg/mL
 (α -D-Glucose)
 1-b. Maltotriose 0.1 mg/mL
 2. Maltose 0.1 mg/mL
 3. Fructose 0.1 mg/mL

Resolution (1-b, 2) : 1.83 ($\geq$ 1.3)

Relative retention time:

1-a. Dextrose 1.00 (21.5 min)
 (α -D-Glucose)
 1-b. Maltotriose 0.77 (16.5 min)
 2. Maltose 0.84 (18.0 min)
 3. Fructose 1.23 (26.4 min)