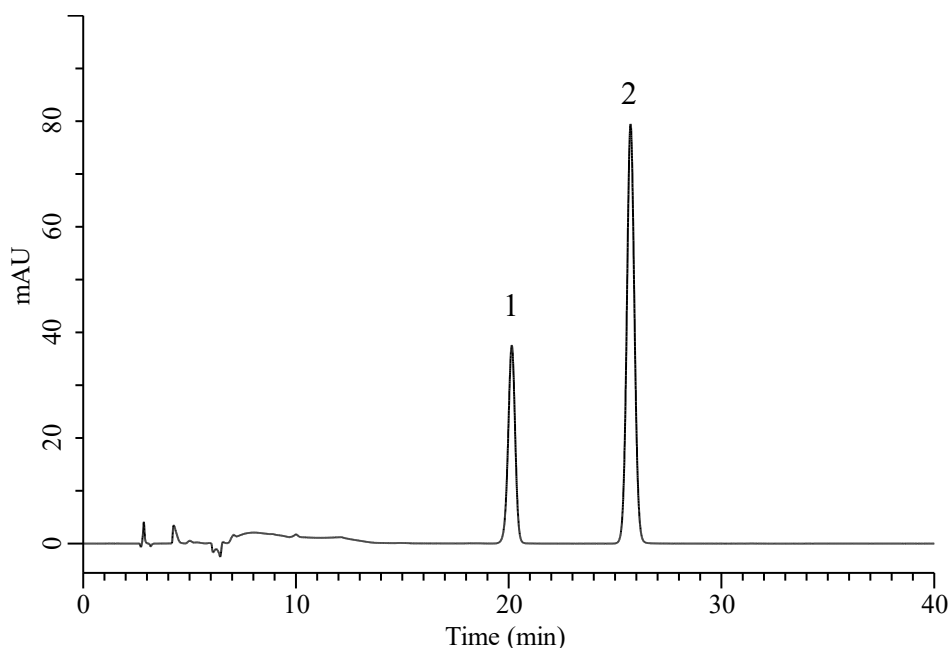


Analysis of Folic acid

(Under the Condition of USP NF 2022 ISSUE 3, FOLIC ACID ASSAY, PROCEDURE 1)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustainSwift C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-88027
Eluent : Solution*
Flow Rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 280 nm (Chromaster 5420 UV-VIS)
Injection Vol. : 15 μ L
Sample : Standard

Analyte:

1. Folic acid 0.016 mg/mL
 2. Methylparaben 0.4 mg/mL

Relative retention times

Folic acid : 0.78
 Methylparaben : 1.00

RSD of the

peak area of 1 (%) (n=6) : 0.20 ($\leq$ 3.0)
 peak area of 2 (%) (n=6) : 0.09 ($\leq$ 3.0)

*:2 g of monobasic potassium phosphate in 650 mL of water. Add 12.0 mL of Reagent A, 7.0 mL of 3 N phosphoric acid, and 240 mL of methanol. Cool to room temperature, adjust with ammonium hydroxide to a pH of 7.0, dilute with water to 1000 mL