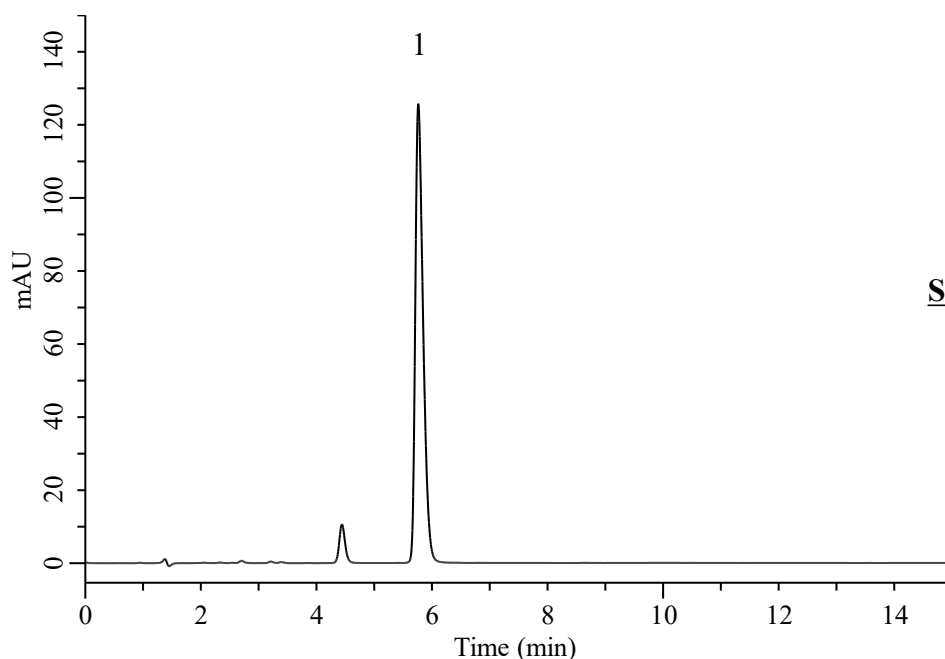


Analysis of Methylene blue

(Under the Condition of draft for USPNF 2022 ISSUE 2, Methylene Blue Injection, Assay)



Standard solution

Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain Phenylhexyl (GL Sciences Inc.)
 (3.5 μ m, 100 x 4.6 mm I.D.)
Column Cat. No. : 5020-93005
Eluent : A) CH₃CN
 B) 0.1% TFA in H₂O
 A/B=25/75, v/v
Flow Rate : 1.0 mL/min
Autosampler : 5 °C
Col. Temp. : 30 °C
Detection : UV 246 nm (Chromaster 5430 DAD)
Injection Vol. : 5 μ L
Sample : Standard in Eluent A/Eluent B=30/70, v/v

Analyte:

1. Methylene blue 100 μ g/mL

Tailing factor : 1.50 ($\leq$ 2.0)

RSD of the
peak area (%) (n=6) : 0.43 ($\leq$ 2.0)