

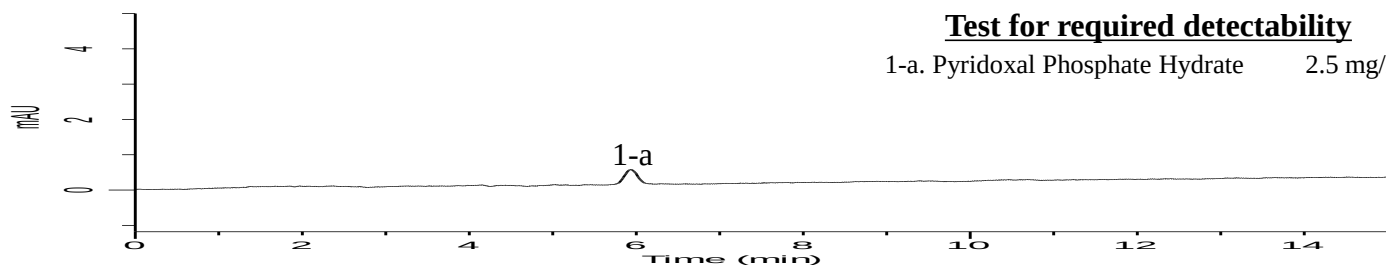
Analysis of Pyridoxal Phosphate Hydrate

(Under the Condition of the Japanese Pharmacopoeia, (4) Related substances)

Data No. LB485-0894

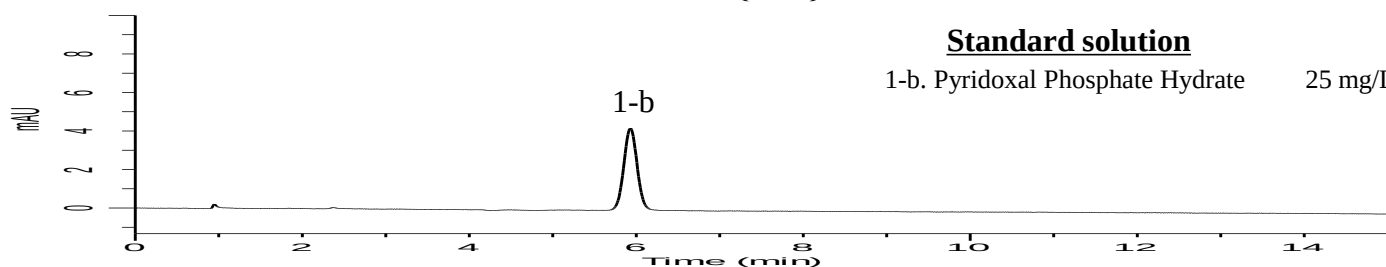
Test for required detectability

1-a. Pyridoxal Phosphate Hydrate 2.5 mg/L



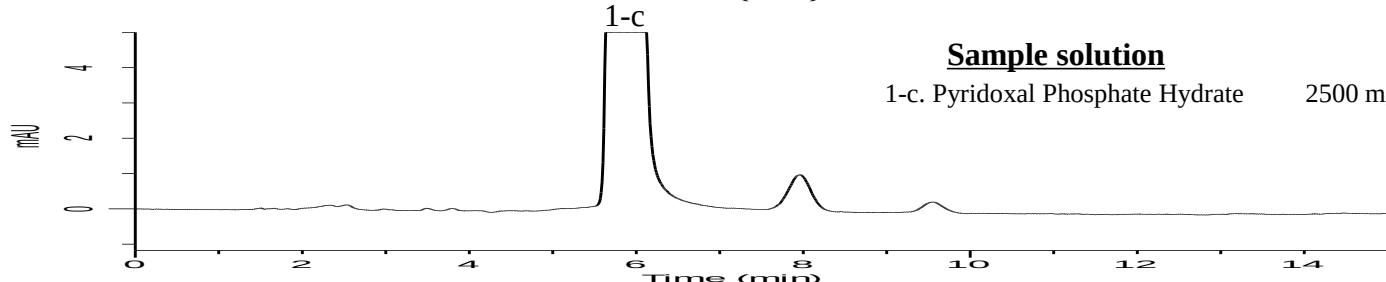
Standard solution

1-b. Pyridoxal Phosphate Hydrate 25 mg/L



Sample solution

1-c. Pyridoxal Phosphate Hydrate 2500 mg/L



Conditions

System : GL7700 HPLC system
Column : InertSustain AQ-C18
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-89731
Eluent : Buffer*
Flow Rate : 1.70 mL/min
Col. Temp. : 30 °C
Detection : UV 254 nm (PD7752 PDA Detector)
Injection Vol. : 5 μ L
•Sample : Standard

*Dissolve 18.15 g of potassium dihydrogen phosphate and 28.38 g of anhydrous disodium hydrogenphosphate in water to make 5 L.

Analyte:

1. Pyridoxal Phosphate Hydrate

The peak area ratio of 1-a to 1-b (%) : (7 $\leq$) 10.1 ($\leq$ 13)
 Theoretical plate number (1-b) : 6,624 ($\geq$ 3,000)
 Tailing factor (n = 6) : 1.02 ($\leq$ 1.5)
 RSD of the 1-b area (%) (n = 6) : 0.24 ($\leq$ 2.0)

Pressure: 13.7 MPa