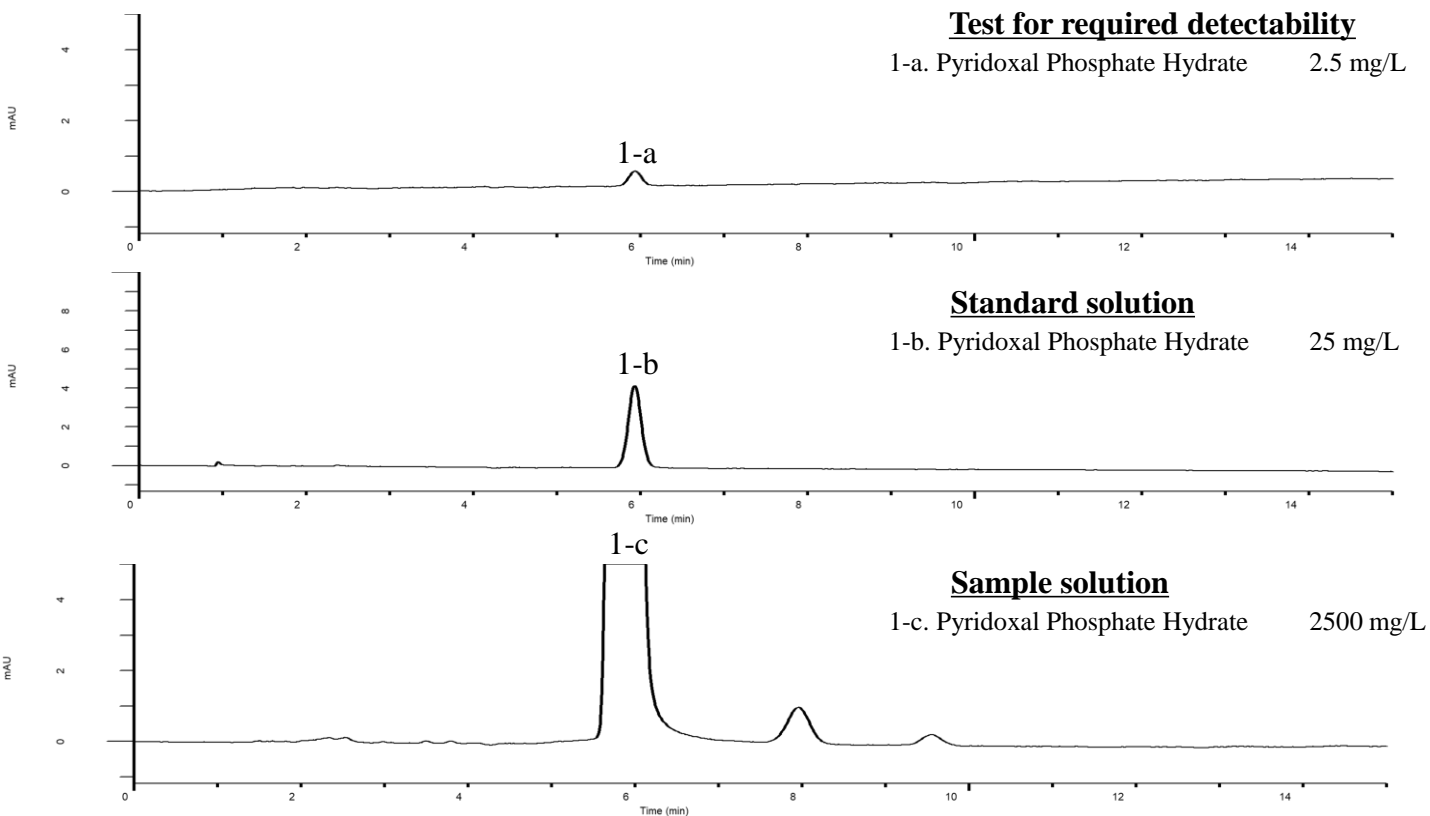


## Analysis of Pyridoxal Phosphate Hydrate

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



### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain AQ-C18  
 (5  $\mu$  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  $\mu$  L  
**•Sample** : Standard

### 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**

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