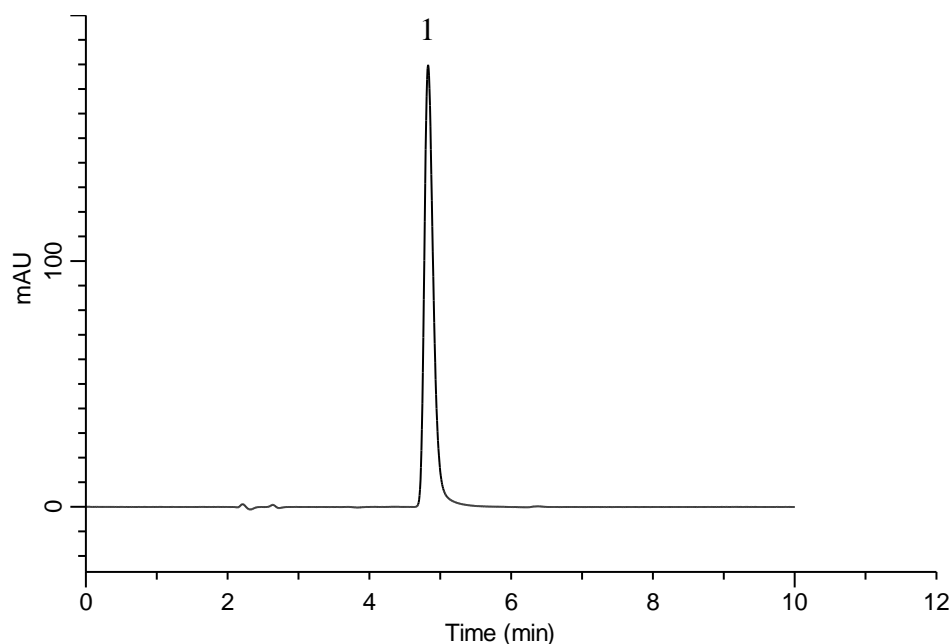


## Analysis of Metformin hydrochloride

(Under the Condition of the Japanese Pharmacopoeia,  
Pioglitazone hydrochloride and Metformin hydrochloride Tablets)



### Conditions

**System** : GL-7400 HPLC system  
**Column** : Inertsil C8-3  
           (5  $\mu$  m, 150 x 6.0 mm I.D.)  
**Column Cat. No.** : 5020-04955  
**Eluent** : 7.2 g/L Sodium lauryl sulfate in (5.75 g/L  $\text{NH}_4\text{H}_2\text{PO}_4$  in  $\text{H}_2\text{O}/\text{CH}_3\text{CN} = 1/1$ , v/v)  
**Flow Rate** : 0.95 mL/min  
**Col. Temp.** : 25  $^\circ\text{C}$   
**Detection** : UV 255 nm (GL-7452 PDA Detector)  
**Injection Vol.** : 5  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Metformin 560 mg/L

Theoretical plates : 7,236 ( $\geq 6,000$ )  
 Tailing factor : 1.41 ( $\leq 2.5$ )  
 RSD of the  
 peak area (%) (n=6) : 0.81 ( $\leq 1.0$ )