

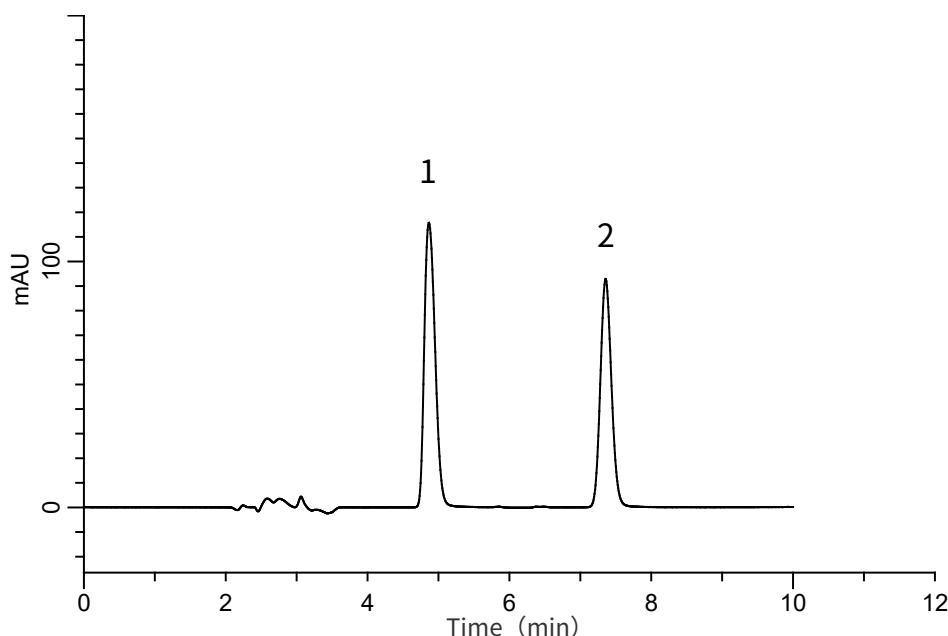
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Metformin hydrochloride

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

Data No. LB194-0894



### 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.** : 10  $\mu\text{L}$   
**Sample** : Standard

### Analyte:

1. Metformin 250 mg/L  
2. *p*-Methoxyacetophenone 25 mg/L

Resolution (1, 2) : 8.74 ( $\geq 2.5$ )  
RSD of the peak  
area ratio of  
1 to 2 (%) (n=6) : 0.46 ( $\leq 1.0$ )