

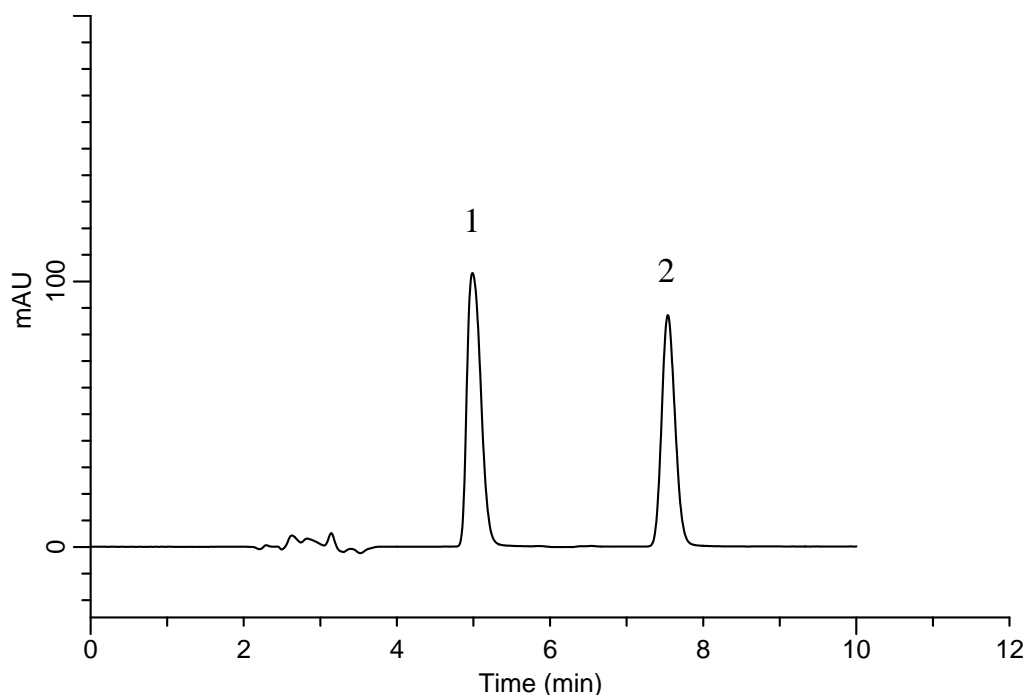
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Metformin hydrochloride

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

Data No. LB195-0894



### Conditions

**System** : GL-7400 HPLC system

**Column** : InertSustain C8  
(5  $\mu$  m, 150 x 6.0 mm I.D.)

**Column Cat. No.** : 5020-16057

**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** : 0.9 mL/min

**Col. Temp.** : 25  $^\circ\text{C}$

**Detection** : UV 255 nm (GL-7452 PDA Detector)

**Injection Vol.** : 10  $\mu$  L

**Sample** : Standard

### Analyte:

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

Resolution (1, 2) : 7.70 ( $\geq 2.5$ )

RSD of the peak  
area ratio of  
1 to 2 (%) (n=6) : 0.22 ( $\leq 1.0$ )