

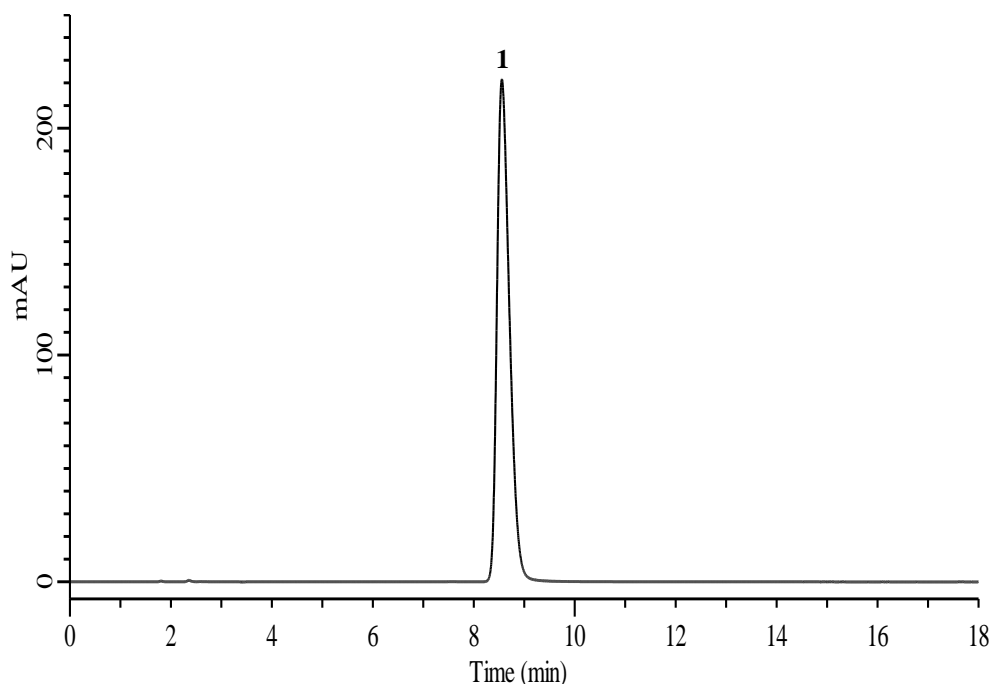
# InertSearch™ for LC

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## Analysis of Metformin Hydrochloride Tablets

(Under the Condition of USP43-NF38, Glyburide and Metformin Hydrochloride Tablets)

Data No. LB745-7111



### Conditions

**System** : Chromaster HPLC system (HITACHI)

**Column** : InertSustain C18 (GL Sciences Inc.)  
(10  $\mu$  m, 300 x 3.9 mm I.D.)

**Column Cat. No.** : 5020-90556

**Eluent** : A) CH<sub>3</sub>CN  
B) Buffer\*  
A/B = 10/90, v/v

**Flow Rate** : 1.0 mL/min

**Col. Temp.** : 30 °C

**Detection** : UV 218 nm

**Injection Vol.** : 5  $\mu$  L

**Sample** : Standard

### Analyte:

1. Metformin 250 mg/L

Tailing factor : (0.8  $\leq$ ) 1.41 ( $\leq$  2.0)

RSD of the  
peak area (%) (n=6) : 0.34 ( $\leq$  1.5)

\* Transfer 1.0 g each of sodium heptanesulfonate and sodium chloride to a 2000-mL volumetric flask. Add 1800 mL of water, and adjust with 0.06 M phosphoric acid to a pH of 3.85. Dilute with water to volume.