

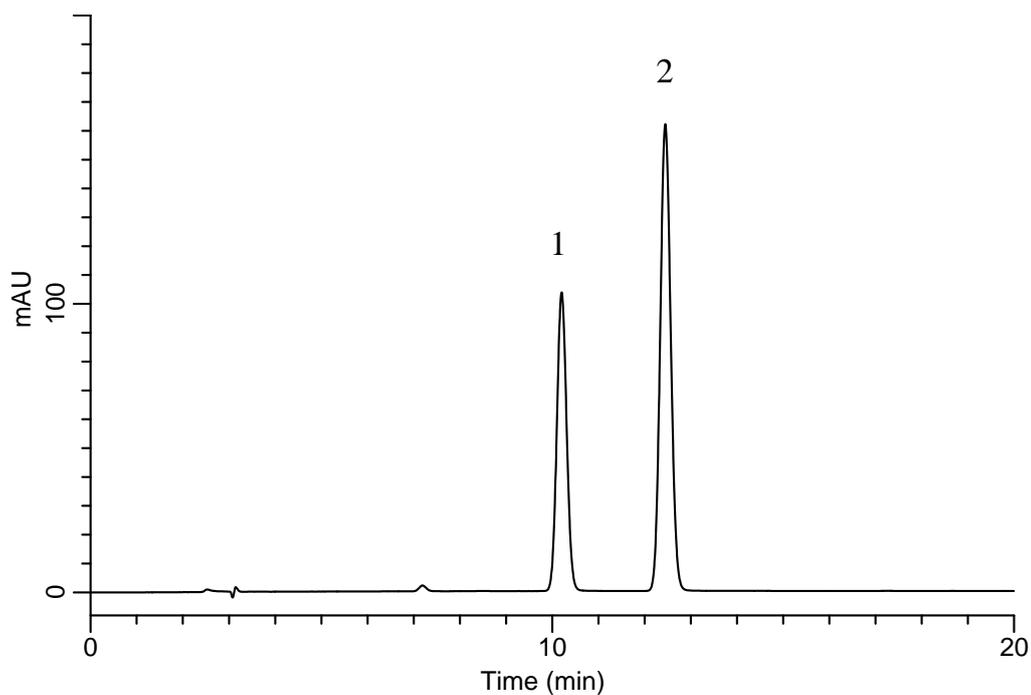
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Hydrochlorothiazide

(Under the Condition of the Japanese Pharmacopoeia)

Data No. LB178-0919



### Conditions

**System** : GL-7400 HPLC system  
**Column** : Inertsil WP300 C18  
(5  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-05846  
**Eluent** : A) CH<sub>3</sub>CN  
B) Buffer\*  
A/B = 1/9, v/v  
**Flow Rate** : 1.15 mL/min  
**Col. Temp.** : 25 °C  
**Detection** : UV 254 nm (GL-7452 PDA Detector)  
**Injection Vol.** : 20  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Hydrochlorothiazide 150 mg/L  
2. 4-Aminoacetophenone 225 mg/L

Resolution (1, 2) : 5.6 ( $\geq$  4)  
RSD of the peak  
area ratio of  
1 to 2 (%) (n=6) : 0.07 ( $\leq$  1.0)

\*Dissolve 15.60 g of sodium dihydrogenphosphate dihydrate in 900 mL of water.  
Adjust pH 3.0 by phosphoric acid.  
Add water to make up to 1000 mL.