

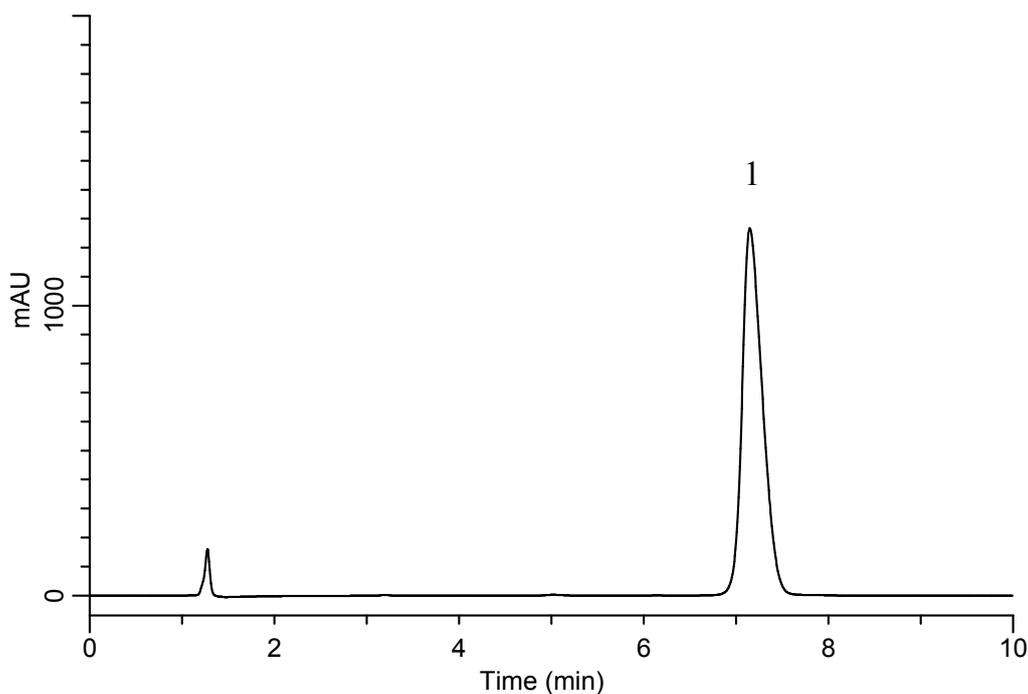
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Ciprofloxacin hydrochloride

(Under the Condition of the Japanese Pharmacopoeia,  
Ciprofloxacin hydrochloride hydrate)

Data No. LB196-0894



### Conditions

**System** : GL-7400 HPLC system  
**Column** : InertSustain C18  
(5  $\mu$  m, 250 x 4.0 mm I.D.)  
**Column Cat. No.** : 5020-07336  
**Eluent** : A) CH<sub>3</sub>CN  
B) Buffer\*  
A/B = 13/87, v/v  
**Flow Rate** : 1.45 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 278 nm (GL-7452 PDA Detector)  
**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

\*Dissolve 2.88 g of phosphoric acid in 1000 mL of water.  
Adjust pH 3.0 by triethylamine.

### Analyte:

1. Ciprofloxacin hydrochloride hydrate 450 mg/L

Theoretical plates : 5,062 ( $\geq$  3,500)

Tailing factor : 1.33 ( $\leq$  1.5)