

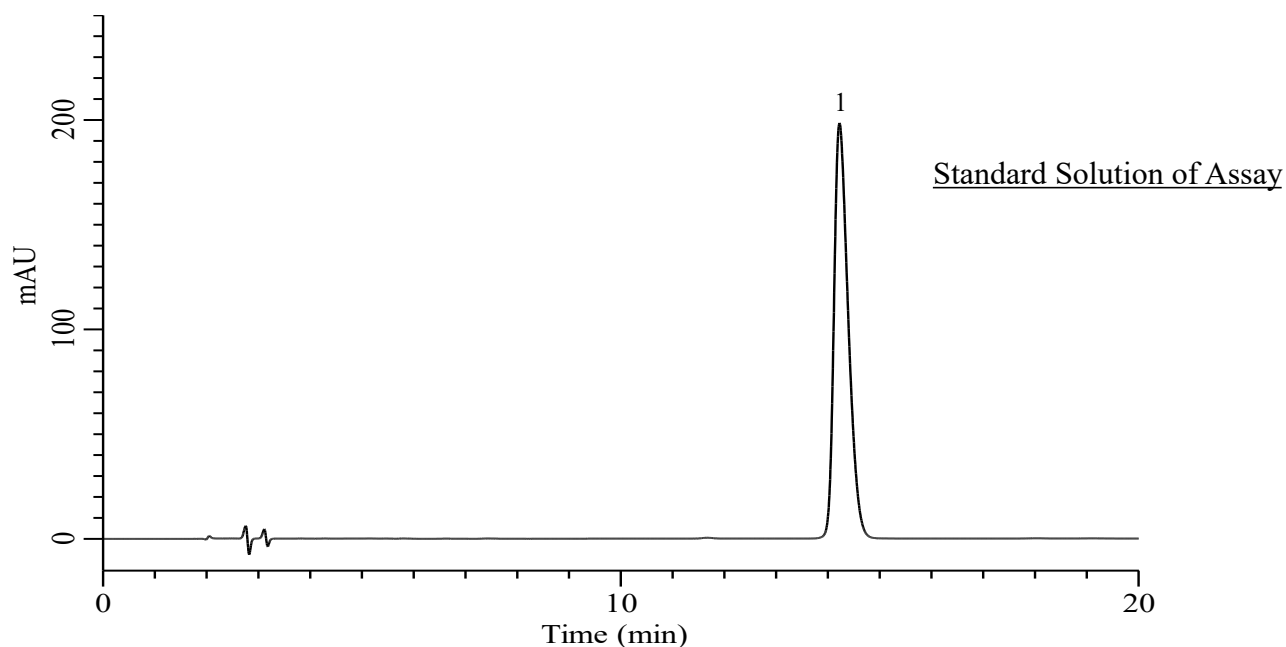
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Cefoxitin

(Under the Condition of USP43-NF38, Cefoxitin for Injection)

Data No. LB876-1138



### Conditions

**System** : Chromaster HPLC system (HITACHI)  
**Column** : InertSustain C18 (GL Sciences Inc.)  
(5  $\mu$  m, 300 x 3.9 mm I.D.)  
**Column Cat. No.** : 5020-87031  
**Eluent** : A) CH<sub>3</sub>CN  
B) H<sub>2</sub>O  
C) CH<sub>3</sub>COOH  
A/B/C = 16/84/1, v/v/v  
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 254 nm  
**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Cefoxitin 0.3 mg/mL  
Tailing factor : 1.43 ( $\cong$ 1.5)  
RSD of the peak area (%)(n=6) : 0.43 ( $\cong$ 1.0)  
Number of theoretical plates : 12,650 ( $\cong$ 2,800)