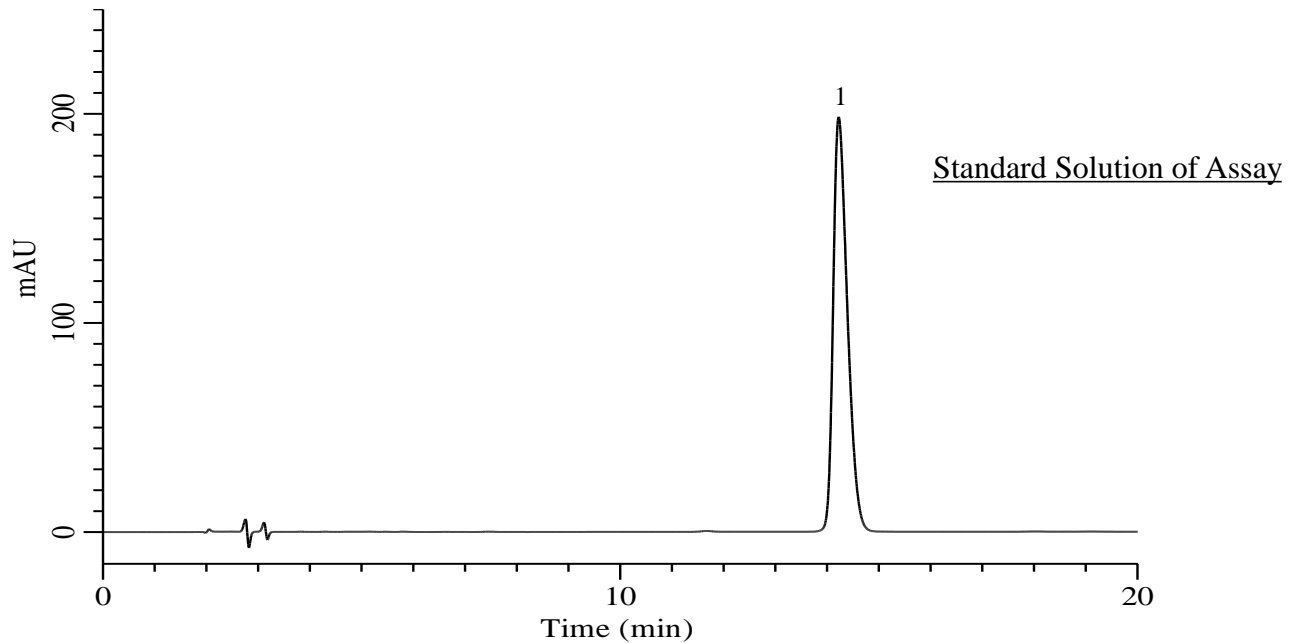


# Analysis of Cefoxitin

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



## 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 ( $\leq$ 1.5)     |
| RSD of the peak area (%) (n=6) | : 0.43 ( $\leq$ 1.0)     |
| Number of theoretical plates   | : 12,650 ( $\geq$ 2,800) |