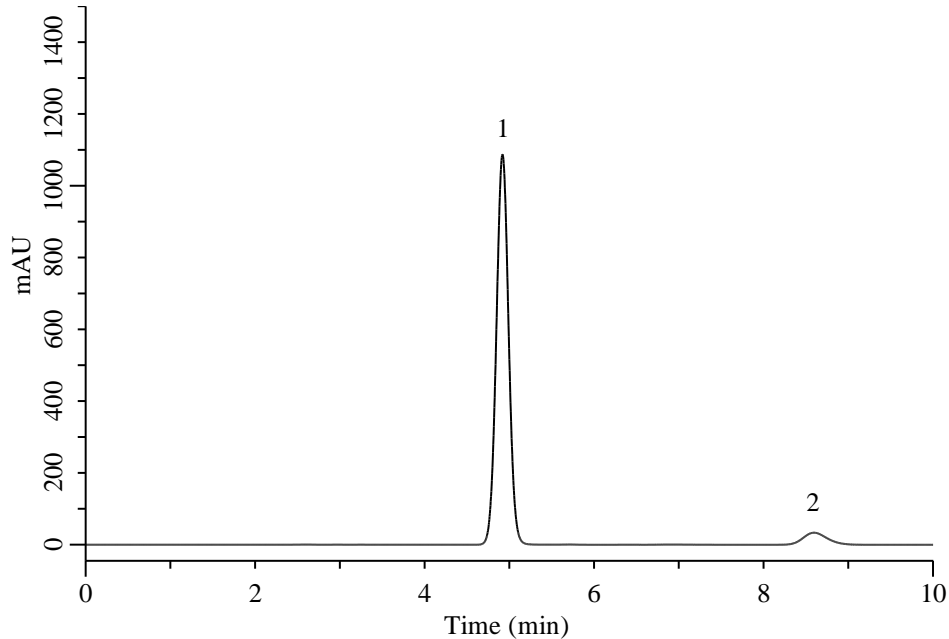


# Analysis of Captopril

(Under the Condition of USP43-NF38, Captopril Tablets)



## Conditions

**System** : Primaide HPLC system (HITACHI)  
**Column** : InertSustain AQ-C18 (GL Sciences Inc.)  
 (5  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-89731  
**Eluent** : 0.5mL/L H<sub>3</sub>PO<sub>4</sub>  
 in (CH<sub>3</sub>OH/H<sub>2</sub>O = 55/45, v/v)  
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 220 nm  
**Injection Vol.** : 20  $\mu$  L  
**Sample** : Standard

## Analyte:

1. Captopril	1 mg/mL
2. Captopril Disulfide	0.05 mg/mL
Resolution (1,2)	: 6.3 ( $\geq$ 2.0)
RSD of the	
peak area of 1 (%) (n=6)	: 0.11 ( $\leq$ 2.0)
peak area of 2 (%) (n=6)	: 0.30 ( $\leq$ 2.0)
Relative retention times	
Captopril	: 4.92/8.59 (0.57)
Captopril Disulfide	: 8.59/8.59 (1.0)