

# InertSearch™ for LC

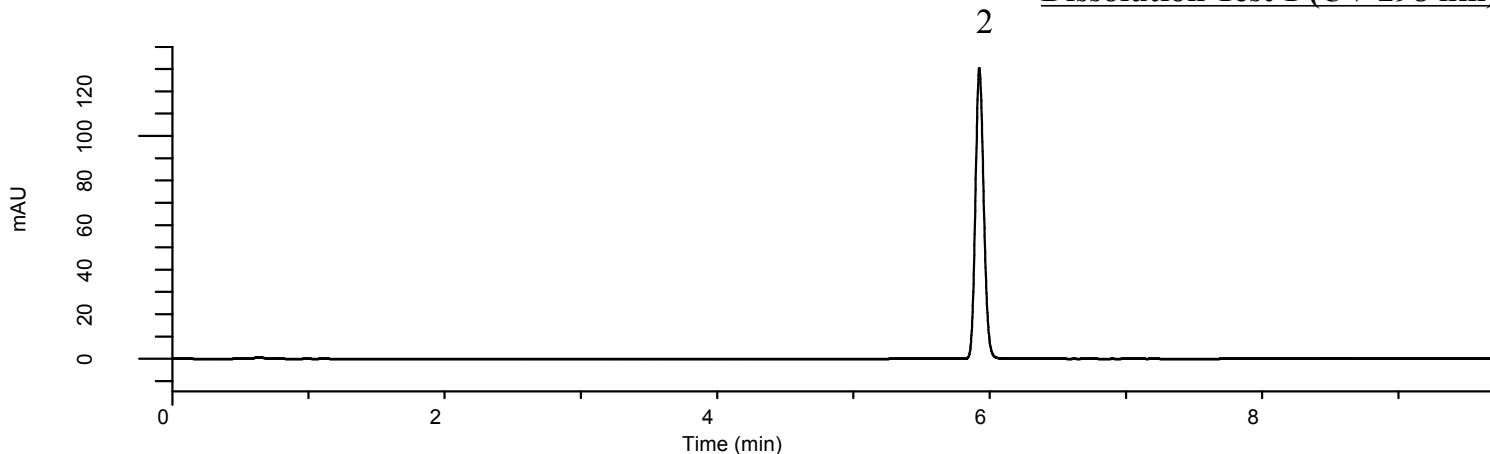
Inertsil™ Applications

## Analysis of Telmisartan and Hydrochlorothiazide

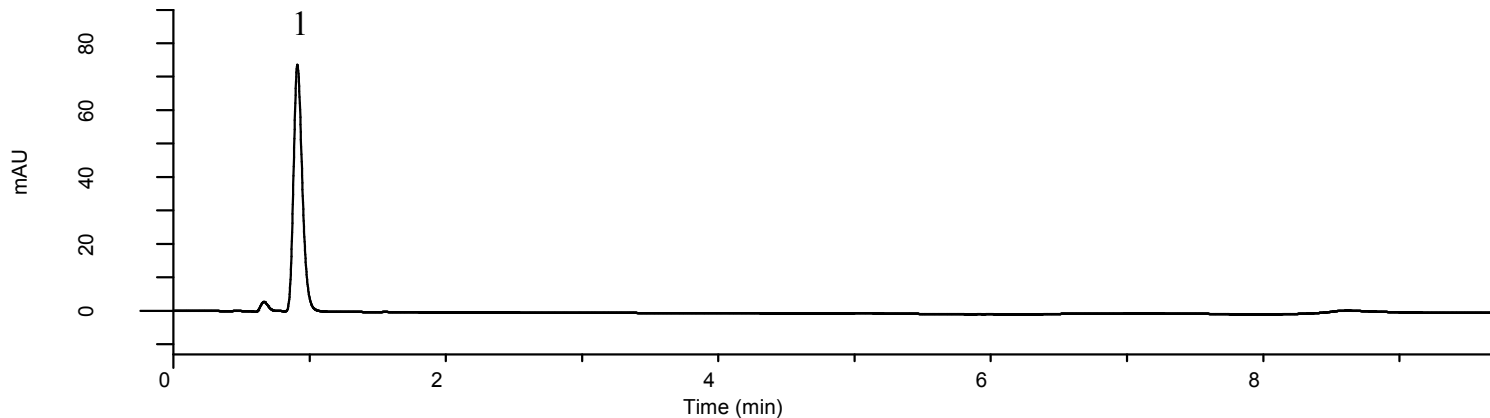
(Under the Condition of USP41-NF36, Telmisartan and Hydrochlorothiazide Tablets)

Data No. LB535-0812

### Telmisartan standard solution of Dissolution Test 1 (UV 298 nm)



### Hydrochlorothiazide standard solution of Dissolution Test 1 (UV 270 nm)



#### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustainSwift C8 (5  $\mu$  m, 60 x 3.0 mm I.D.)  
**Column Cat. No.** : 5020-  
**Eluent** : A) CH<sub>3</sub>CN  
B) 5 g/L NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub> (pH 3.0, H<sub>3</sub>PO<sub>4</sub>)

#### **Analyte:**

1. Hydrochlorothiazide : 14 mg/L  
2. Telmisartan : 44 mg/L

Symmetry factor (1) : 1.25 (< 2.5)  
Symmetry factor (2) : 1.14 (< 2.5)

RSD of the peak area of 1 (n=6) : 0.83 (< 2.0)

RSD of the peak area of 2 (n=6) : 0.11 (< 2.0)

Time(min)	A(vol%)	B(vol%)	Flow rate (mL/min)
0	15	85	0.6
1.50	15	85	0.6
1.51	60	40	0.6
5.00	60	40	0.6
5.01	80	20	1.0
6.20	80	20	1.0
6.21	15	85	0.6
9.70	15	85	0.6

**Col. Temp.** : 40 °C  
**Detection** : UV 270 nm or 298 nm  
**Injection Vol.** : 4  $\mu$  L