

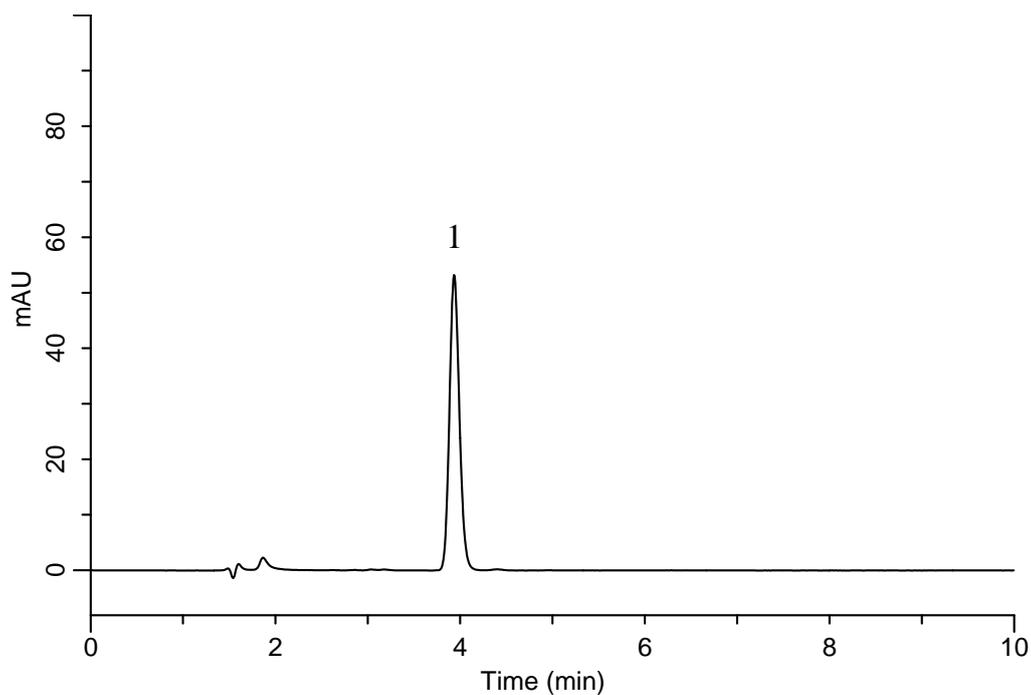
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Simvastatin

(Under the Condition of the Japanese Pharmacopoeia, Simvastatin Tablets)

Data No. LB122-0894



### Conditions

**System** : GL-7400 HPLC system  
**Column** : Inertsil WP300 C18  
(5  $\mu$  m, 150 x 3.9 mm I.D.)  
**Column Cat. No.** : 5020-  
**Eluent** : A) CH<sub>3</sub>OH  
B) 20 mM KH<sub>2</sub>PO<sub>4</sub>  
A/B = 80/20, v/v  
**Flow Rate** : 0.95 mL/min  
**Col. Temp.** : 50 °C  
**Detection** : UV 238 nm (GL-7452 PDA Detector)  
**Injection Vol.** : 20  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Simvastatin 5.5 mg/L

Theoretical plates : 6,485 ( $\geq$  3,000)  
Tailing factor : 1.14 ( $\leq$  2.0)  
RSD of the peak area (%) (n=6) : 0.19 ( $\leq$  1.0)