

# InertSearch™ for LC

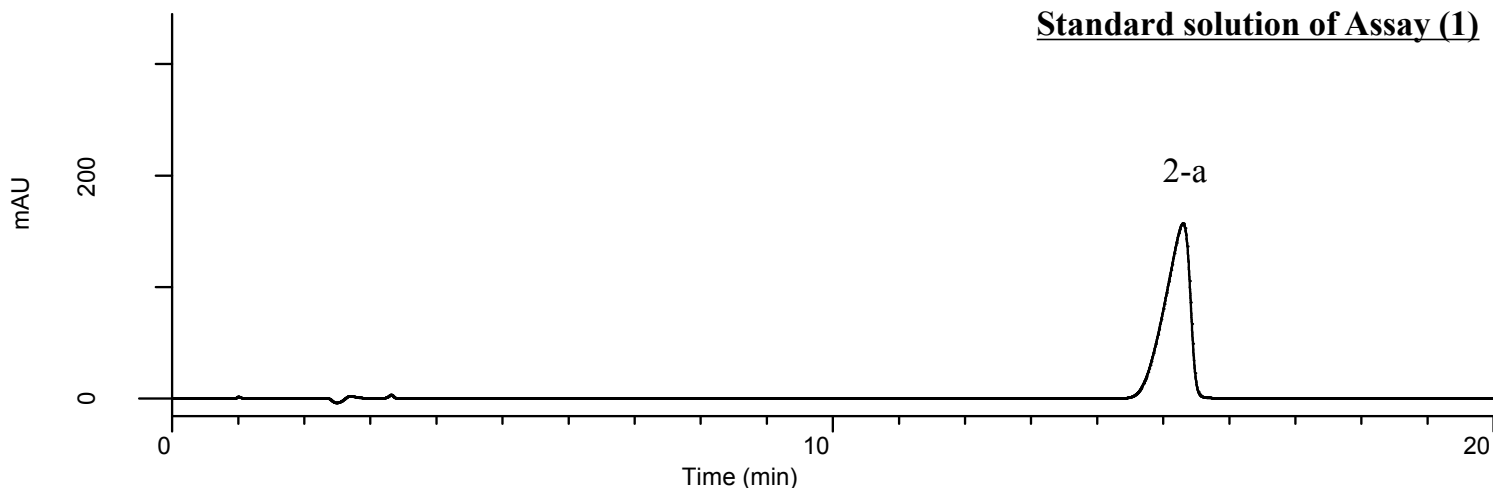
Inertsil® Applications

## Analysis of Carnosine

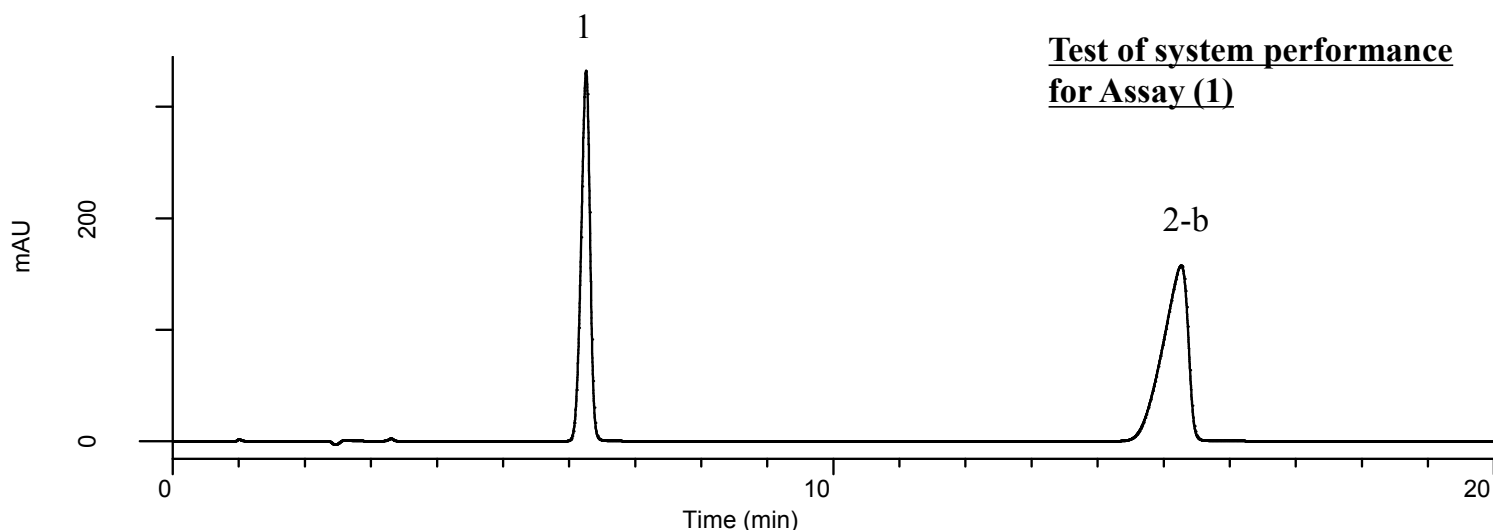
(Under the Condition of the draft for the Japanese Pharmacopoeia, Poraprezinc)

Data No. LB528-0812

### Standard solution of Assay (1)



### Test of system performance for Assay (1)



#### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain C18 (5  $\mu$  m, 150 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-07345  
**Eluent** : A) CH<sub>3</sub>CN  
B) 2.22 g/L IPCC-08 in Buffer\*  
(IPCC-08: Sodium 1-Octanesulfonate)  
A/B = 90/10, v/v  
**Flow rate** : 1.1 mL/min  
**Col. Temp.** : 45 °C  
**Detection** : UV 210 nm (UV7750 UV Detector)  
**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

#### Analyte:

1. Histidine 250 mg/L  
2. Carnosine 200 mg/L

Resolution (1, 2-b) : 18.7 ( $\geq 12$ )  
RSD of the peak  
area of 2-a (%) (n=6) : 0.09 ( $\leq 1.0$ )

\* Dissolve 1.4 g of KH<sub>2</sub>PO<sub>4</sub> in 1000 mL of water, and adjust to pH 3.5 with 1% H<sub>3</sub>PO<sub>4</sub>.