

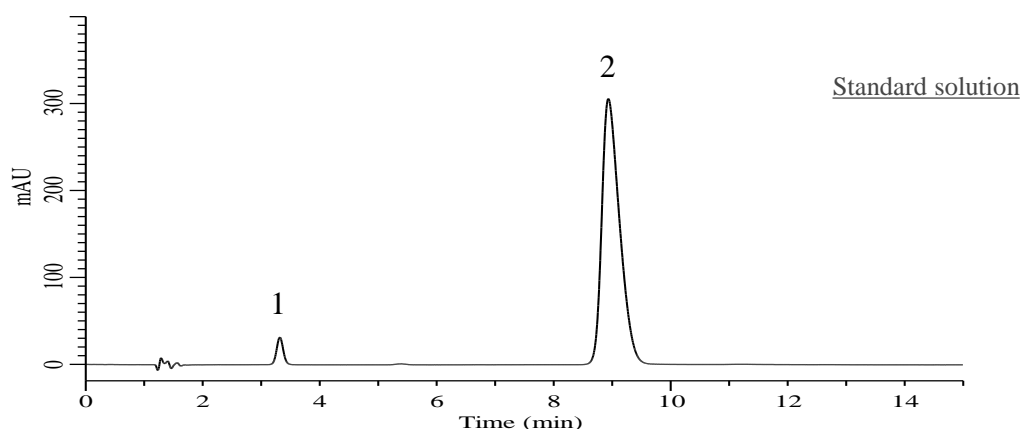
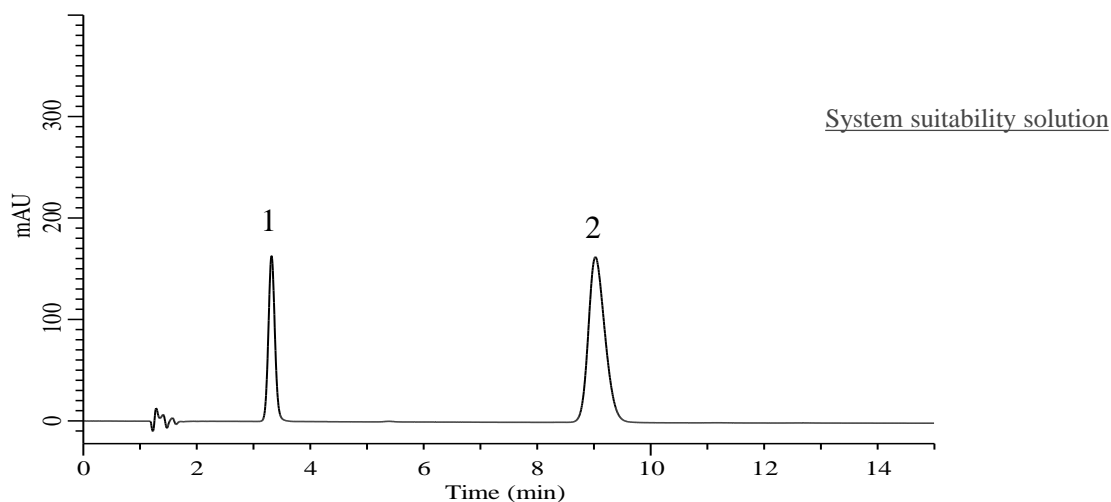
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Chlorprocaine hydrochloride

(Under the Condition of USP43-NF38, Chlorprocaine Hydrochloride Injection)

Data No. LB828-7111



### Conditions

**System** : Chromaster HPLC system (HITACHI)  
**Column** : InertSustain C18 (GL Sciences Inc.)  
(10  $\mu$  m, 300 x 3.9 mm I.D.)  
**Column Cat. No.** : 5020-90556  
**Eluent** : Solution\*  
**Flow Rate** : 2.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 278 nm  
**Injection Vol.** : 5  $\mu$  L  
**Sample** : Standard

### Analyte:

1. 4-Amino-2-chlorobenzoic acid  
2. Chlorprocaine

Relative retention times \*\*

4-Amino-2-chlorobenzoic acid : 3.3 (0.37)  
Chlorprocaine : 8.9 (1.0)

\*\* The relative retention times for 4-amino-2-chlorobenzoic acid and chlorprocaine are about 0.35 and 1.0, respectively.

Resolution (1,2) : 15.12 ( $\geq$  5.0)

RSD of the  
peak area of 2 (%) (n=6) : 0.24 ( $\leq$  1.0)

\* Dissolve 800 mg of sodium 1-heptanesulfonate in 740 mL of water. Add 200 mL of acetonitrile, 50 mL of methanol, and 10 mL of glacial acetic acid.