

# InertSearch for LC

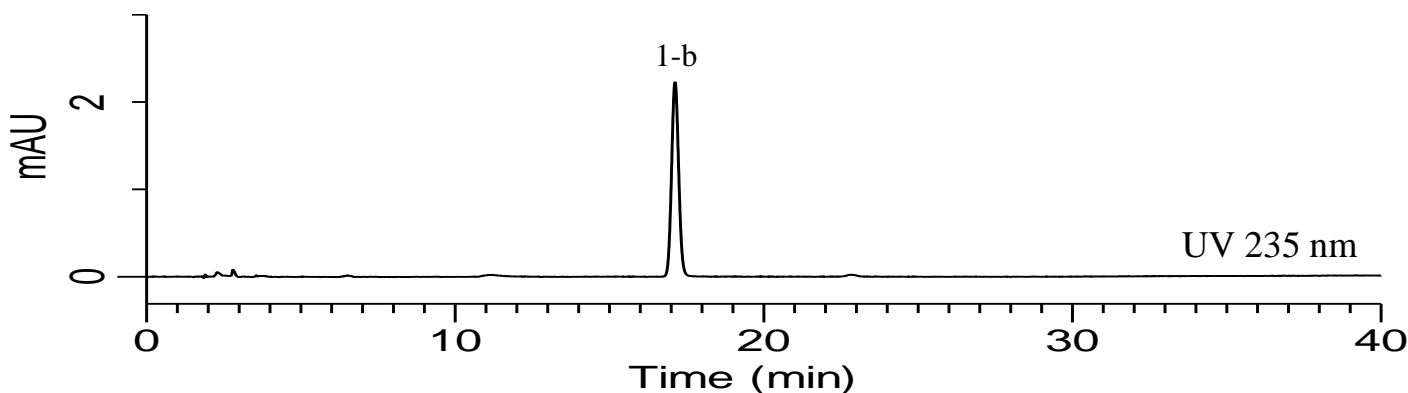
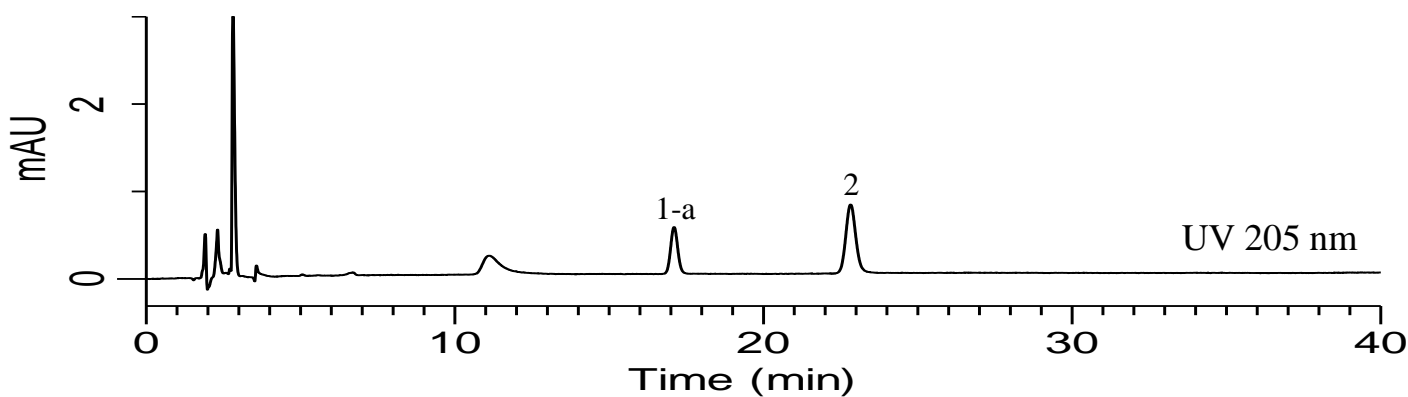
Inertsil Applications

## Analysis of Copovidone

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

(4) 1-Vinyl-2-pyrrolidone and vinyl acetate)

Data No. LB627-0952



### Conditions

**System** : GL7700 HPLC system  
**Guard Column** : Inertsil ODS-4  
(5  $\mu$  m, 33 x 4.0 mm I.D.)  
**Column Cat. No.** : 5020-04251  
**Column** : Inertsil ODS-4  
(5  $\mu$  m, 250 x 4.0 mm I.D.)  
**Column Cat. No.** : 5020-03936  
**Eluent** : A) CH<sub>3</sub>CN  
B) H<sub>2</sub>O  
A/B = 2/23, v/v  
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 205 or 235 nm (UV7750 UV Detector)  
**Injection Vol.** : 20  $\mu$  L  
**Sample** : Standard

### Analyte:

1. 1-Vinyl-2-pyrrolidone 0.25 mg/L  
2. Vinyl acetate 0.25 mg/L

Resolution (1-a,2) : 11.75 ( $\geq$  2.0)  
RSD of the peak area of 1-b (%) (n=6)  
: 1.33 ( $\leq$  2.0)  
RSD of the peak area of 2 (%) (n=6)  
: 0.50 ( $\leq$  2.0)