

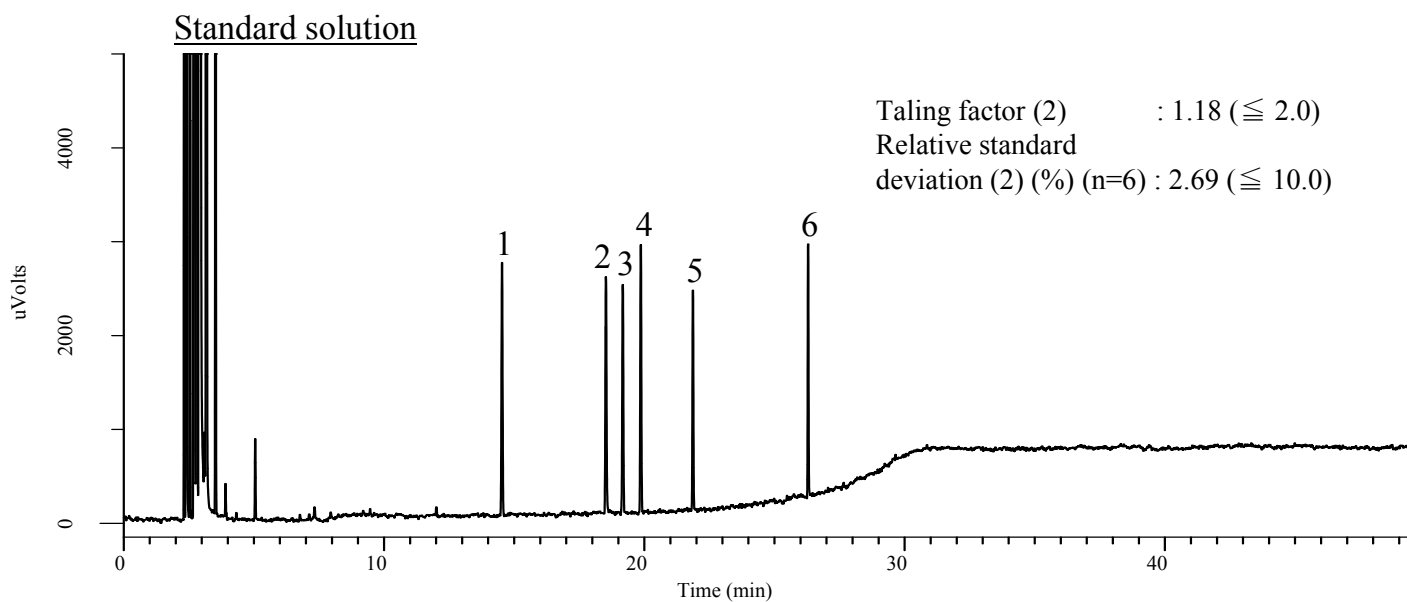
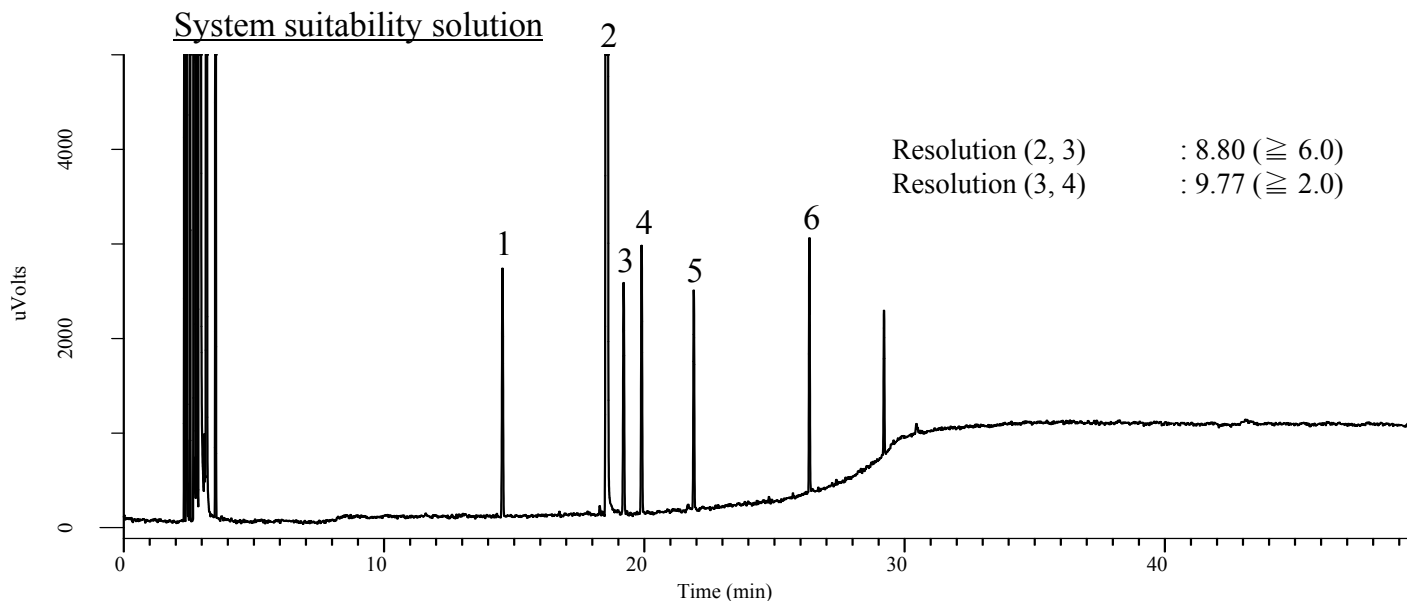
# InertSearch™ for GC

InertCap® Applications

## Memantine Hydrochloride

(Under the Condition of United States Pharmacopeia 39, Organic Impurities)

Data No. GA 291-0904



### Conditions

**System** : GC-4000 Plus-FID  
**Column** : InertCap 5  
0.32 mm I.D. x 50 m df = 0.52  $\mu$ m  
**Col. Temp.** : 50 °C - 5 °C/min - 145 °C  
- 10 °C/min - 250 °C (20 min)  
**Carrier Gas** : He 4.0 mL/min  
**Injection** : Split 1:50  
220 °C  
**Injection Vol.** : 1  $\mu$ L  
**Detection** : FID Auto Range  
300 °C  
**Sample** : Standard

### Analyte

1. Memantine related compound A  
(1,3-Dimethyladamantane)
2. Memantine
3. Memantine related compound B  
(3,5-Dimethyladamantane-1-ol)
4. Memantine related compound C  
(1-Chloro-3,5-dimethyladamantane)
5. Memantine related compound D  
(1-Bromo-3,5-dimethyladamantane)
6. Memantine related compound E  
(*N*-3,5-Dimethyladamantan-1-yl formamide)