

# InertSearch™ for LC

Inertsil™ Applications

## Analysis of Steviol glycosides

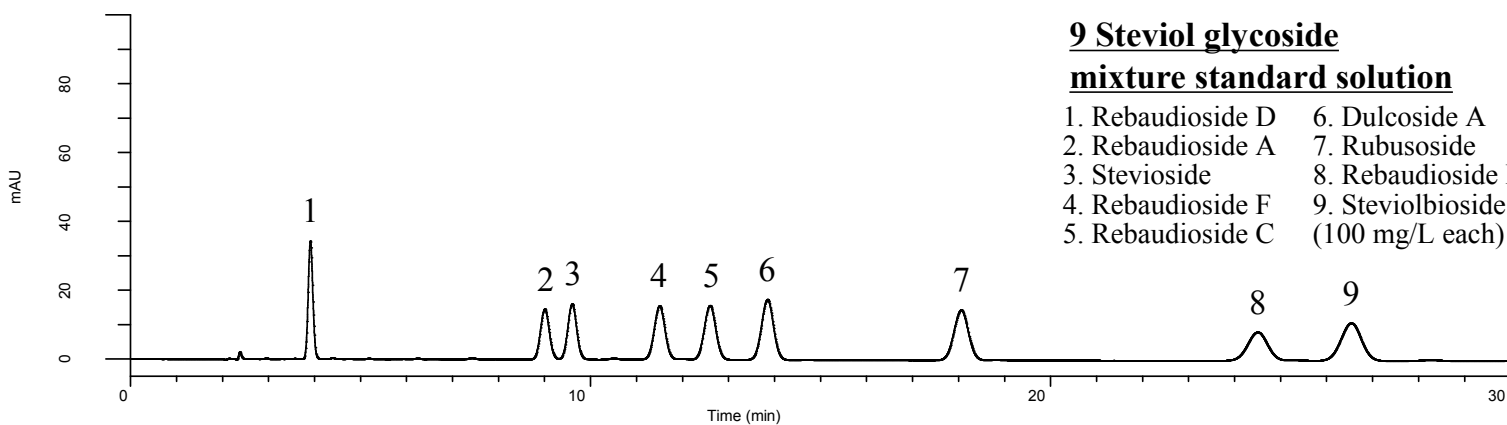
(Under the Condition of the JSFA-IX (Japanese Standards of Food Additives),  
Steviol Glycosides)

Data No. LB568-0919

### 9 Steviol glycoside

#### mixture standard solution

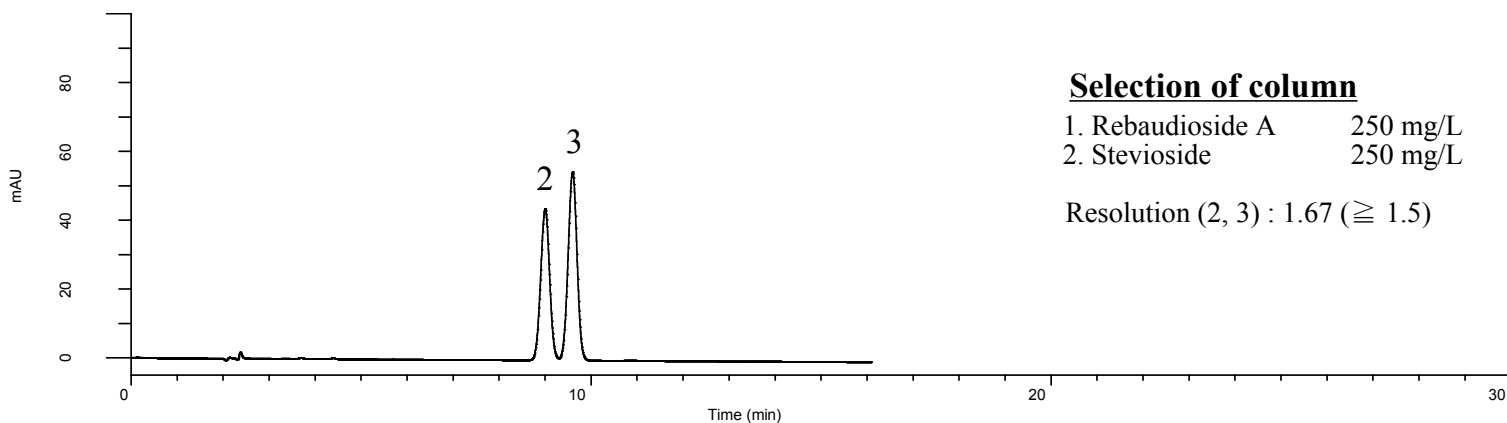
- |                   |                   |
|-------------------|-------------------|
| 1. Rebaudioside D | 6. Dulcoside A    |
| 2. Rebaudioside A | 7. Rubusoside     |
| 3. Stevioside     | 8. Rebaudioside B |
| 4. Rebaudioside F | 9. Steviolbioside |
| 5. Rebaudioside C | (100 mg/L each)   |



### Selection of column

- |                   |          |
|-------------------|----------|
| 1. Rebaudioside A | 250 mg/L |
| 2. Stevioside     | 250 mg/L |

Resolution (2, 3) : 1.67 ( $\geq 1.5$ )



### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain AQ-C18  
(5  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-89731  
**Eluent** : A) CH<sub>3</sub>CN  
B) 0.01 M Phosphate buffer in H<sub>2</sub>O (pH 2.6)\*  
A/B = 8/17, v/v  
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 210 nm (UV7751 UV Detector)  
**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Rebaudioside D
2. Rebaudioside A
3. Stevioside
4. Rebaudioside F
5. Rebaudioside C
6. Dulcoside A
7. Rubusoside
8. Rebaudioside B
9. Steviolbioside

\*Dissolve 1.56 g of sodium dihydrogenphosphate dihydrate in 1000 mL of water (Solution A).

Dissolve 1.15 g of phosphoric acid in 1000 mL of water (Solution B).

Mix together equal parts of Solution A and Solution B.