

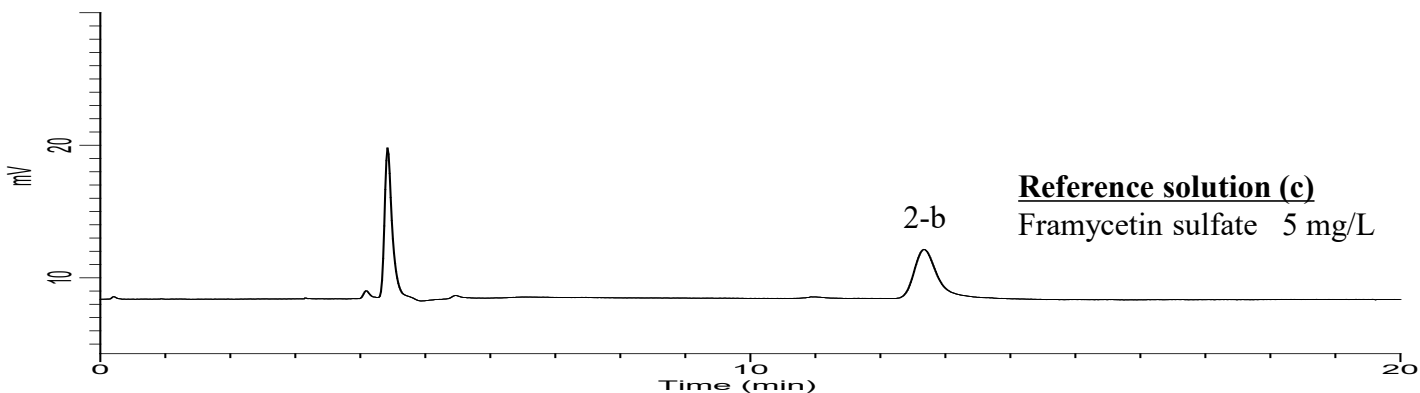
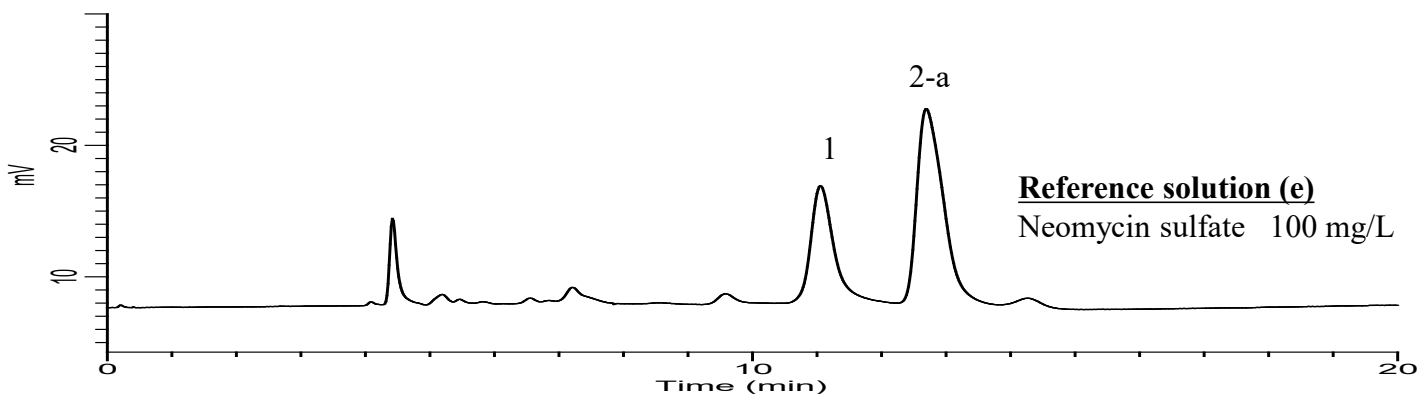
# InertSearch™ for LC

Inertsil® Applications

## Analysis of Neomycin sulfate

(Under the Condition of European Pharmacopoeia 11.0)

Data No. LB698-0919



### Conditions

**System** : Chromaster HPLC system(HITACHI)  
**Column** : InertSustain C18(GL Sciences Inc.)  
(5  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-07346  
**Eluent** : (2 % TFA + 0.3 % NaOH) in H<sub>2</sub>O\*  
**Flow Rate** : 0.7 mL/min  
**Reaction Reagent** : 0.5 M NaOH in H<sub>2</sub>O\*\*  
**Reaction Flow Rate** : 0.5 mL/min  
**Col. Temp.** : 25 °C  
**Detection** : ECD Pulse Mode (ED743, Gold)

E1:	0 mV	t1:	400 ms
E2:	800 mV	t2:	100 ms
E3:	-600 mV	t3:	100 ms
E4:	0 mV	t4:	0 ms
		ts:	50 ms

**Injection Vol.** : 10  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Neomycin C (Not qualitative)  
2. Neomycin B

Resolution (1, 2-a) : 2.64 ( $\geq$  2.0)  
Signal - to - noise ratio (2-b) : 58.8 ( $\geq$  10)

\*This condition may be slightly below the recommended usage pH range of the column. Therefore, it is recommended to thoroughly wash the column and replace it early.

\*\*Do not flow the reaction reagent to the analytical column. It may deteriorate the analytical column rapidly.