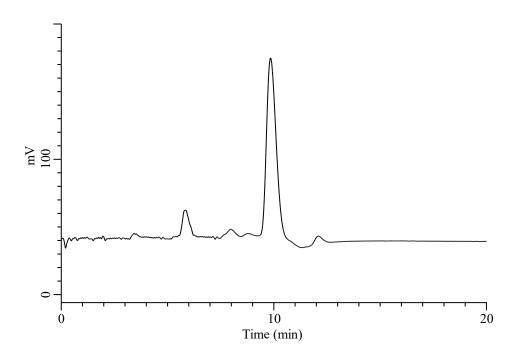


InertSearch for LC Data No. LC011-1054

Spectinomycin dihydrochloride pentahydrate

0.8 mg/mL

Analysis of Spectinomycin



Conditions Analyte:

System : Chromaster PLUS (HITACHI)
Column : InertSustain C8 (GL Sciences Inc.)

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(5 μm, 250 x 4.6 mm I.D.)

Column Cat. No. : 5020-16028 Eluent : A) CH₃CN B) Buffer *1

A/B = 1/10, v/v

Flow Rate : 1.0 mL/min

Reaction Reagent: 525 mM NaOH in H₂O

Reaction Flow Rate: 0.5 mL/min **Col. Temp.** : 40 °C

Detection : ECD Pulse Mode (ED743, Gold)

E1: 120 mV 400 ms t1: E2: 700 mVt2: 100 ms E3: -600 mV t3: 100 ms E4: $0 \, \text{mV}$ 0 mst4: ts: 50 ms

Injection Vol. : 20 μL Sample : Standard *2

^{*1:} Dissolve 4.2 g of oxalic acid and 2.0 mL of heptafluorobutyric acid in water and dilute to 1000 mL with water R; adjust to pH 3.2 with sodium hydroxide solution R, add 105 mL of acetonitrile R and mix; degas for 10 min.

^{*2:} Dissolve 40.0 mg of spectinomycin hydrochloride (containing (4R)-dihydrospectinomycin) in water and dilute to 50.0 mL with the same solvent. Allow to stand for the same period of time as the test solution (formation of anomers). Dilute 5.0 mL of this solution to 50.0 mL with the mobile phase.