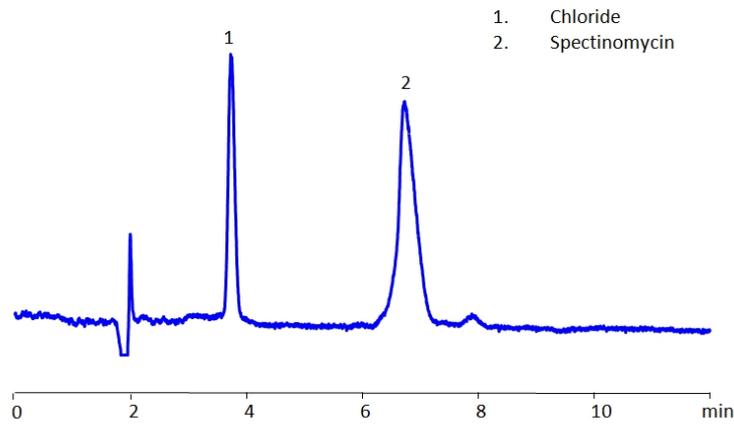


## HPLC Determination of Spectinomycin on Obelisc R Column



**Column:** Obelisc R  
**Column size:** 4.6 x 150 mm, 5 µm  
**Mobile phase:** MeCN -30%  
**Buffer:** AmAc pH 3.5 - 50 mM  
**Flow rate:** 1 ml/min  
**UV detection:** CAD

High Performance Liquid Chromatography (HPLC) Method for Analysis of Spectinomycin .

Chloride is typically used to refer to a compound or molecule that contains a chlorine anion: Cl<sup>-</sup> . It is an electrolyte that is essential for bodily functions including blood pH, fluid balance, cellular functions, and more. Imbalance of chloride can indicate underlying health problems.

Spectinomycin is an antibiotic with the chemical formula C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub> . It is typically used to treat gonorrhea infections through injection. It works by binding itself to the 30S ribosomal subunit which leads to prevention of movement of mRNA and tRNA molecules during protein synthesis. It can be found under the brand name Trobicin.

Spectinomycin can be retained and analyzed using the Obelisc R stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Ammonium Acetate buffer. Detection is performed using CAD.

### Method Parameters

|                     |  |
|---------------------|--|
| <b>Column</b>       | Obelisc R, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| <b>Mobile Phase</b> | MeCN -30%,                                       |
| <b>Buffer</b>       | Ammonium Acetate pH 3.5 – 50 mM                  |
| <b>Flow Rate</b>    | 1.0 mL/min                                       |
| <b>Detection</b>    | CAD  |

Quelle: <https://sielc.com/hplc-determenation-of-spectinomycin-on-obelisc-r-column>