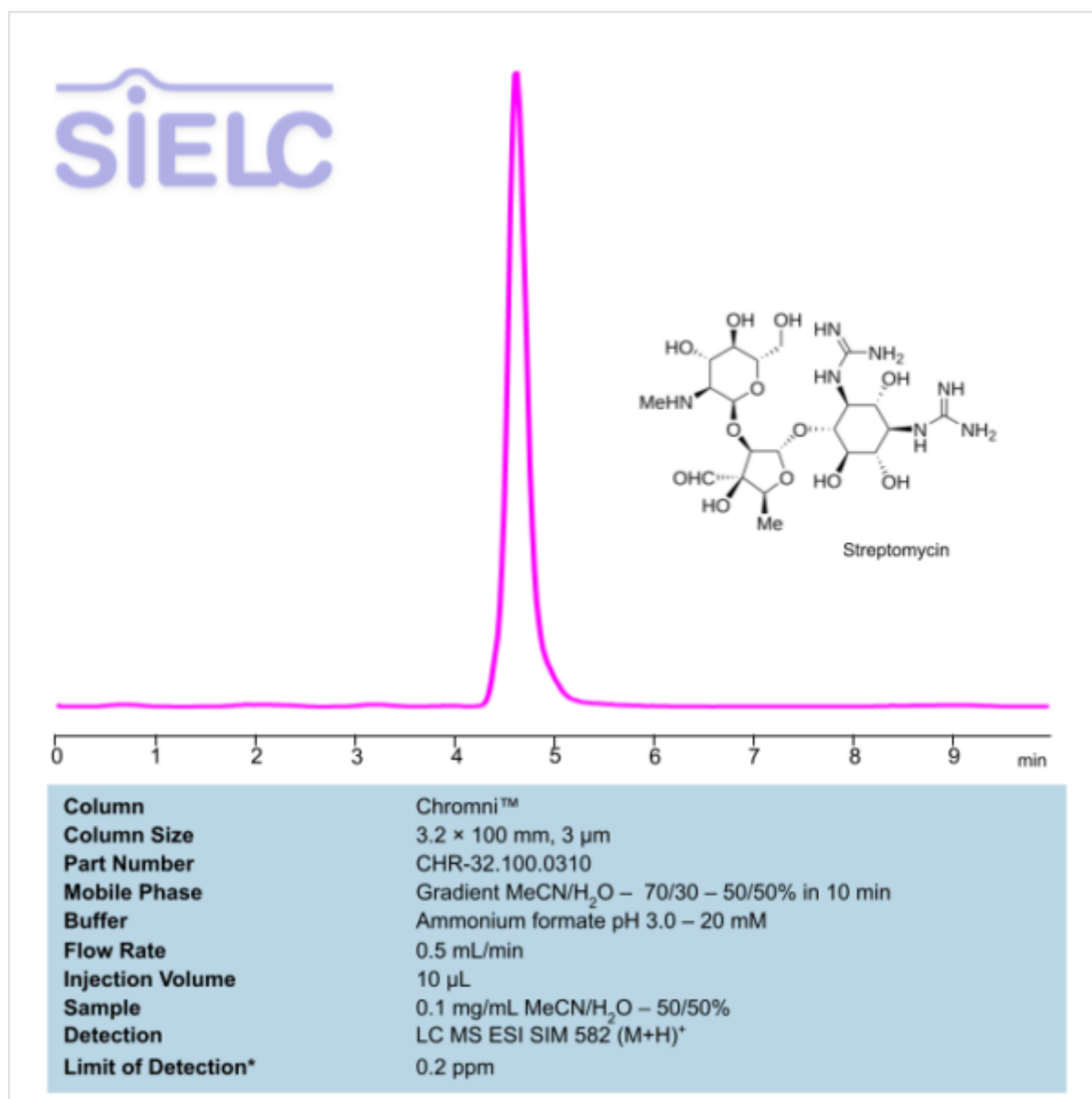


HPLC MS Method for Analysis of Streptomycin on Chromni Column

<https://sielc.com/hplc-ms-method-for-analysis-of-streptomycin>

Chromatogram



Description

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

Streptomycin is the an antibiotic with the chemical formula C₂₁ H₃₉ N₇ O₁₂ . It is primarily used to treat bacterial infections but not limited to tuberculosis, endocarditis, brucellosis, and the plague. It is typically given intramuscularly. It works as a protein synthesis inhibitor by binding to the 16S rRNA of the 30S ribosomal subunit, which leads to it interfering with the binding of formyl-methionyl-tRNA. It is the official state microbe of New Jersey. You can find detailed UV spectra of Streptomycin and information about its various lambda maxima by visiting the following link.

Streptomycin can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using LC MS.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	Ammonium Formate
Flow Rate	0.5 ml/min
Detection	LC MS ESI SIM 582 (M+H) ⁺
LOD*	0.2 ppm
Class of Compounds	Antibiotic
Analyzing Compounds	Streptomycin

HPLC Column Used

Chromni, 3.2 x 100 mm, 3 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)