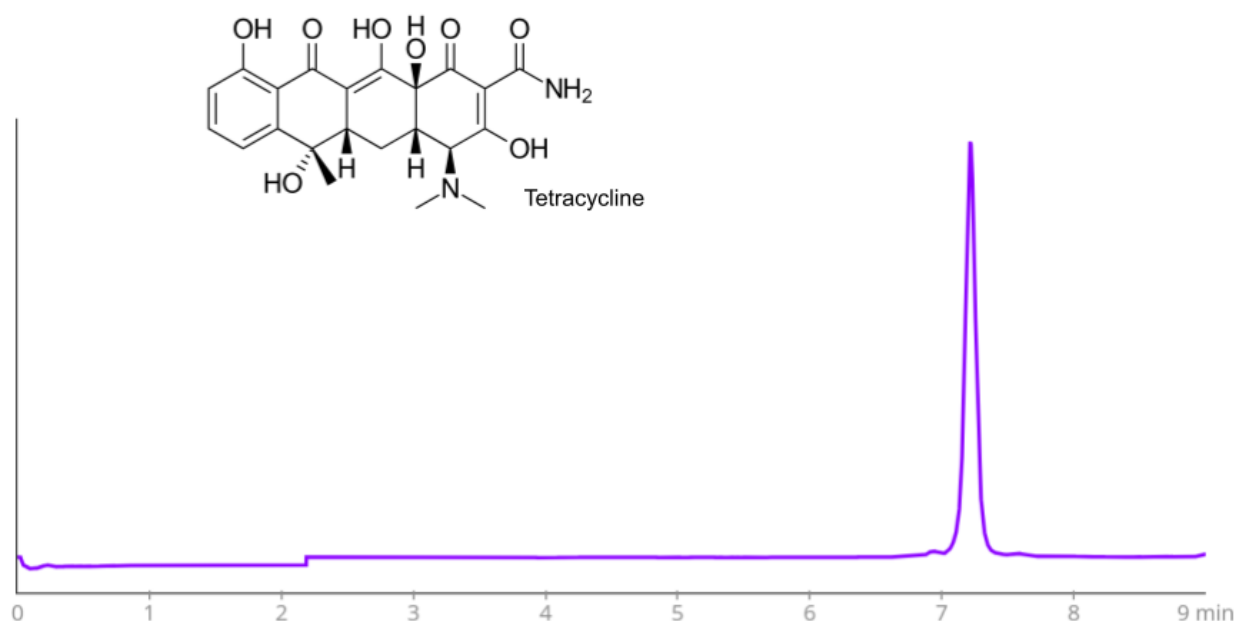


HPLC Method for Analysis of Tetracycline on Primesep 100 Column on Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-tetracycline-2>

Chromatogram

siELC



Column	Primesep 100
Column Size	4.6 x 150 mm, 5 µm, 100 Å
Part Number	100-46.150.0510
Mobile Phase	Gradient MeCN/H ₂ O - 20-80%
Buffer	H ₂ SO ₄ - 0.2%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

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

Tetracycline is an antibiotic with the molecular formula C₂₂H₂₄N₂O₈. It is a bacteriostatic agent, therefore it prevents bacteria from growing and multiplying through inhibiting protein synthesis within bacteria. It is used to treat a variety of infections.

Tetracycline can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	Gradient MeCN – 20-80%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Class of Compounds	Medication
Analyzing Compounds	Tetracycline

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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