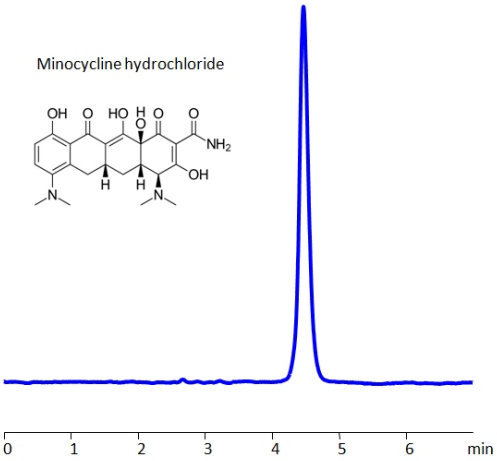
HPLC Method For Analysis Of Minocycline on Primesep 100 column



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H_2O – 50/50%
Buffer:	H2SO4 – 0.5%
Flow rate:	1.0 mL/min
Detection:	UV 270 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Minocycline hydrochloride

Minocycline hydrochloride is a tetracycline antibiotic with C23H27N3O7 • HCl [XH2O] molecular formula. It is used to treat a wide variety of bacterial infections, acne, and sexually transmitted infections. Despite that, it is generally less preferred as a medication to tetracycline doxycycline.

Minocycline can be retained on the Primesep 100 mixed-mode column using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and sulphuric acid (H2SO4) buffer. The analysis method can be UV detected at 270 nm.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 50/50%
Buffer	H2SO4 – 0.5%
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-minocycline-hydrochloride-2