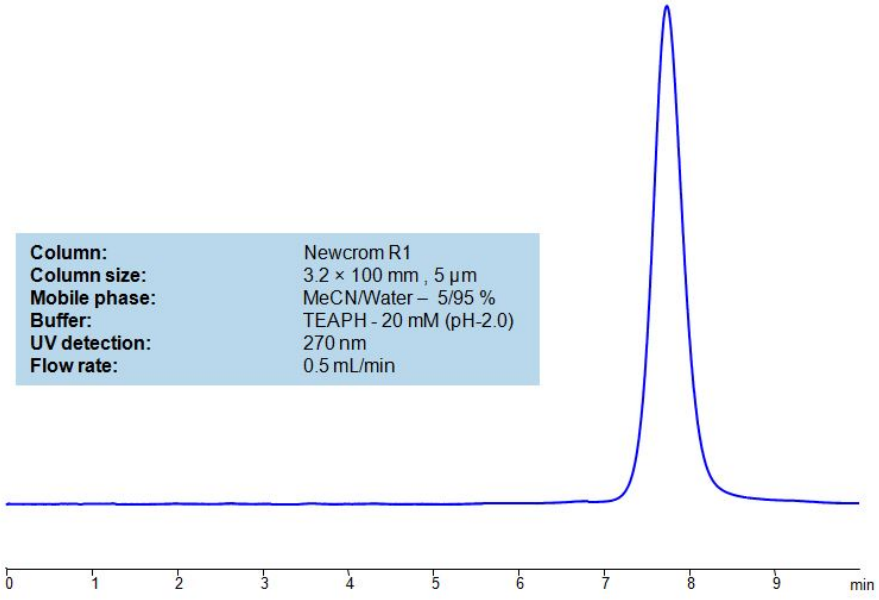
HPLC Method For Analysis Of Minocycline Hydrochloride on Newcrom R1 Column



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.

Minocycline hydrochloride can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a triethanolamine buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom R1, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 5/95%
Buffer	TEAPh – 20 mM, pH 2.0
Flow Rate	0.5 mL/min
Detection	UV, 270 nm

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