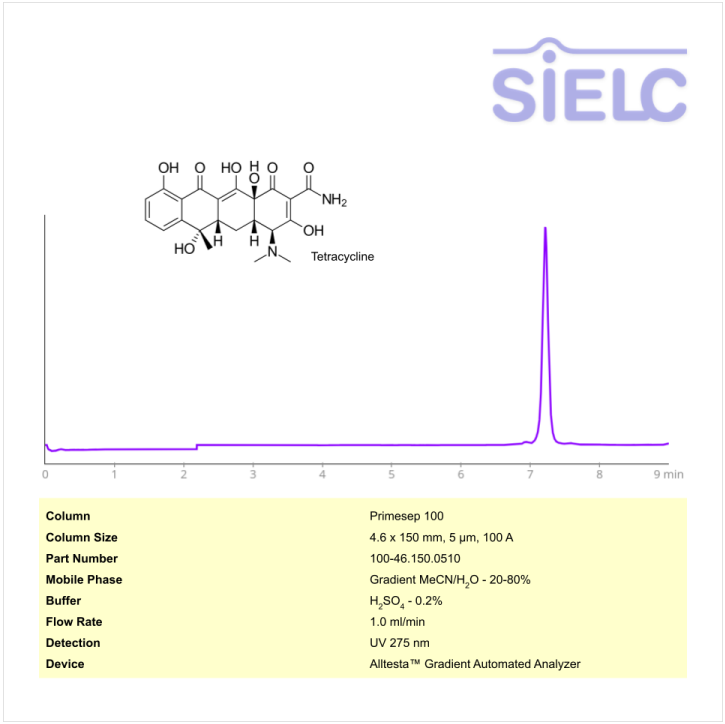
HPLC Method for Analysis of Tetracycline on Primesep 100 Column on Alltesta™



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

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 20-80%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 275 nm

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

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