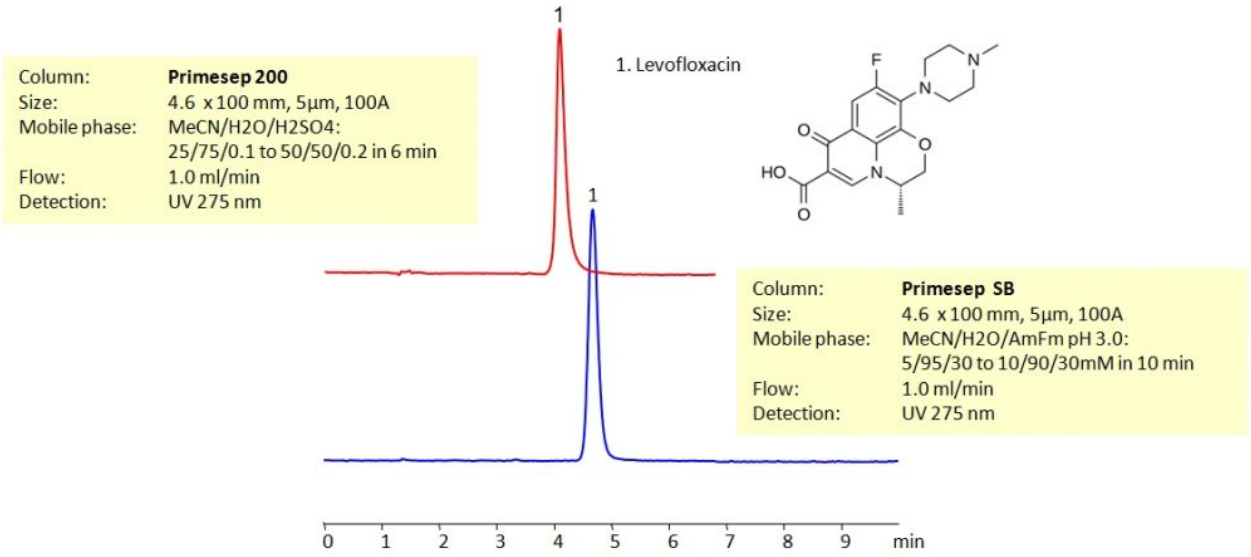
HPLC Method for Analysis of Levofloxacin



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

Levofloxacin is a fluoroquinolone antibiotic with the chemical formula C18H20FN3O4 . Due to its potential for irreversible side effects, it is only used in cases for treatment when there is no other option left. It works through inhibiting two bacterial enzymes, DNA gyrase and topoisomerase IV, which prevents bacteria from multiplying.

Levofloxacin can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes a gradient 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 SB, 4.6×100 mm, 5 µm, 100 Å
Mobile Phase	MeCN Gradient
Buffer	AmFm pH 3.0 – 30 mM
Flow Rate	1 mL/min
Detection	UV 275 nm

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