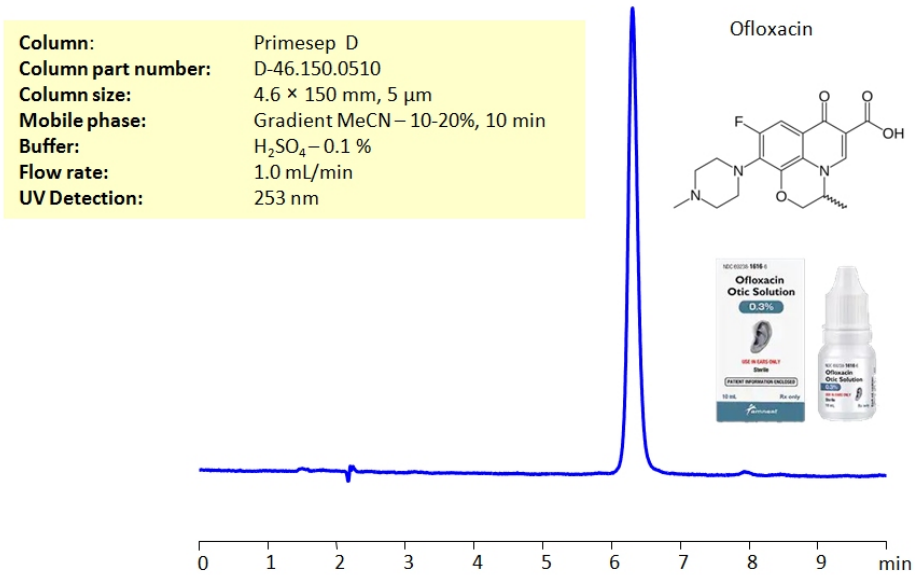
HPLC Method of Ofloxacin in Ofloxacin 0.3 % Ear Drops on Primesep D Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Ofloxacin

Ofloxacin is a common antibiotic with the chemical formula C18H20FN3O4 . It is typically taken by mouth or injected into a vein to treat variety of bacterial infections. Those infections include pneumonia, prostatitis, and the plague. As eye and ear drops, it is also used to treat superficial bacterial infections of the eye and otitis media. As a fluoroquinolone, it is well tolerated, but may cause nausea, vomiting, and diarrhea as a side effect.

Ofloxacin can be measured at low UV. Using a Primesep D reverse-phase column and a mobile phase consisting of water and an acetonitrile (MeCN) gradient with a sulfuric acid (H2SO4) buffer, Ofloxacin can be retained. This analysis method can be UV detected at 253 nm.

Method Parameters

Column	Primesep D, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 10-20%, 10 min
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 253 nm

Quelle: https://sielc.com/hplc-method-of-ofloxacin

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de