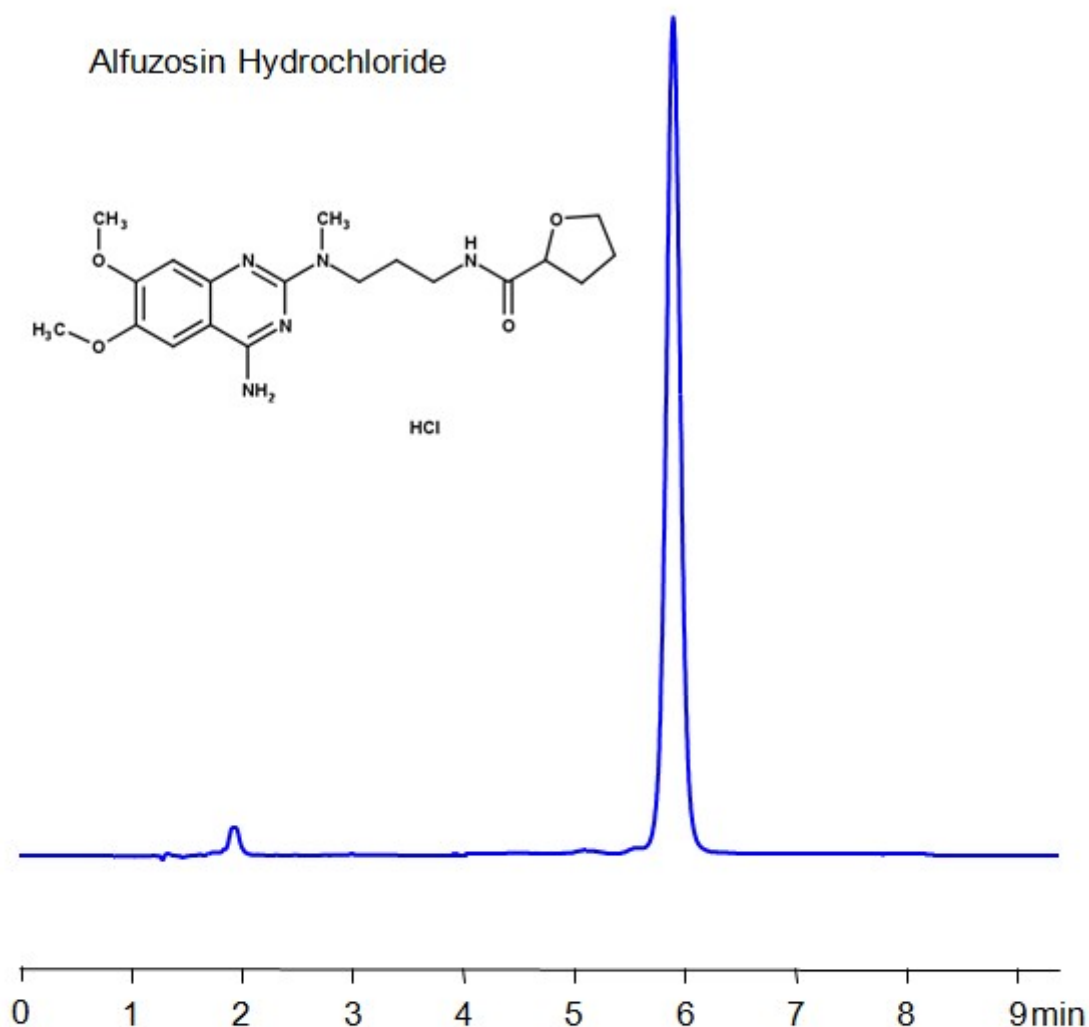


HPLC Method for Analysis of Alfuzosin in Tablet Dosage Form on Primesep 100 Column

<https://sielc.com/hplc-determination-of-alfuzosin>

Chromatogram



Column:	Primesep 100
Column size:	4.6× 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 70/30%
Buffer:	H ₂ SO ₄ – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 254 nm

Description

· HPLC Method for Analysis of Alfuzosin on Primesep 100 Column by SIELC Technologies

Alfuzosin is a medication with the chemical formula $C_{19}H_{27}N_5O_4$. It is used to treat the signs and symptoms of benign prostatic hyperplasia (BPH), which is an enlarged prostate gland. It doesn't shrink the prostate but works by relaxing the muscles of the prostate and the bladder, which helps to relieve symptoms like difficulty in starting the flow of urine, weak stream, and the need to urinate often or urgently. You can find detailed UV spectra of Alfuzosin and information about its various lambda maxima by visiting the following link.

Alfuzosin can be retained, and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a Sulfuric acid as a buffer. This analysis method can be detected using UV at 254 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 ml/min
Detection	UV 254 nm
Peak Retention Time	5.86 min
Class of Compounds	Drug
Analyzing Compounds	Alfuzosin

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)