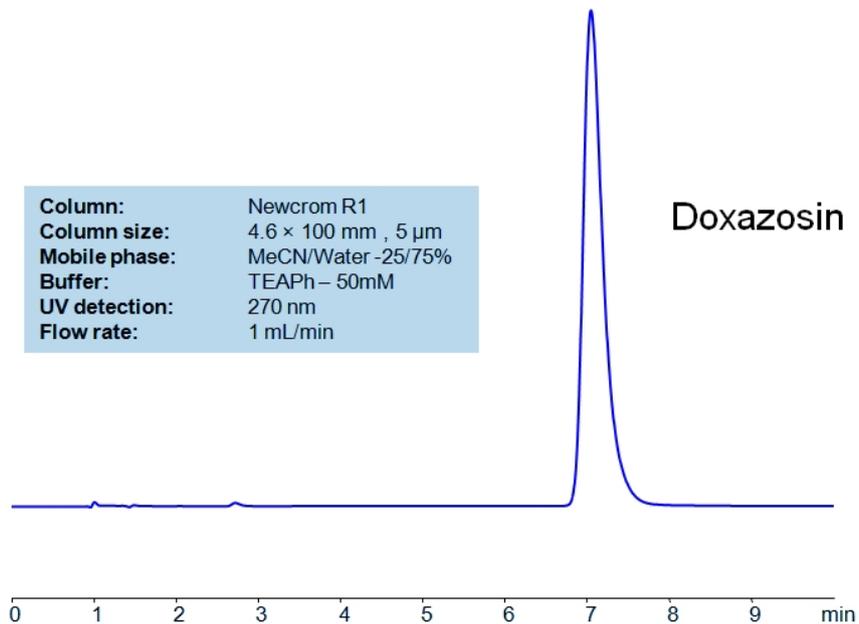


HPLC Method for Analysis of Doxazosin Mesylate in Tablets



High Performance Liquid Chromatography (HPLC) Method for Analysis of Doxazosin mesylate

Doxazosin is a quinazoline derivative with the molecular formula of $C_{23}H_{25}N_5O_5 \cdot CH_3SO_3H$. It is primarily used as a prescription medication for treatment of hypertension and its symptoms. It is an alpha-blocker that relaxes blood vessels and muscles.

Doxazosin mesylate 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, 4.6 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 25/75%
Buffer	TEAPh – 50 mM
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-doxazosin-mesylate-in-tablets>