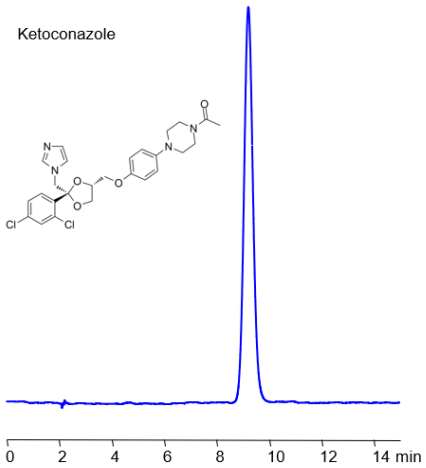
HPLC Method for Analysis of Ketoconazole on Primesep B Column



Column:	Primesep B
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B-46.150.0510
Mobile phase:	MeCN /H_2O– 15/85%
Buffer:	H_2SO_4 – 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 200 nm

Separation type: Liquid Chromatography Mixed-mode

Ketoconazole, also known as Nizoral, is an antifungal compound used to treat dandruff and is commonly available as a shampoo. Ketoconazole can be retained and analyzed on a Primesep B reverse-phase column using a gradient analytical method with a mobile phase consisting of Acetonitrile (MeCN), water, and Sulfuric acid as the ionic modifier. This analysis method can be UV detected at 200 nm with high resolution and peak symmetry.

Method Parameters

Column	Primesep B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 15%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: https://sielc.com/hplc-determination-of-ketoconazole

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