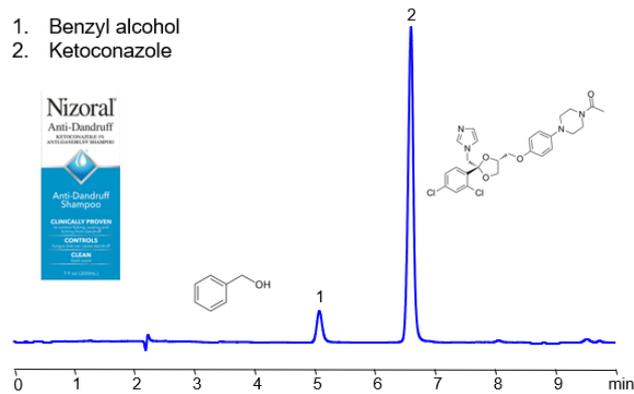


HPLC Method for Determination of Ketoconazole in Nizoral Shampoo on Primesep B Column



Column:	Primesep B
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B-46.150.0510
Mobile phase:	Gradient MeCN – 10-50%, 10 min
Buffer:	Ammonium Formate pH 3.5 –20 mM
Flow rate:	1.0 mL/min
Detection:	UV 250 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, analyzed, and separated from Benzyl alcohol on a Primesep B reverse-phase column using a gradient analytical method with a mobile phase consisting of Acetonitrile (MeCN), water, and Ammonium formate (AmFm) as the ionic modifier. This analysis method can be UV detected at 250 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	Gradient MeCN – 10-50%
Buffer	Ammonium Formate pH 3.5-20 mM
Flow Rate	1.0 mL/min
Detection	UV 250 nm

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