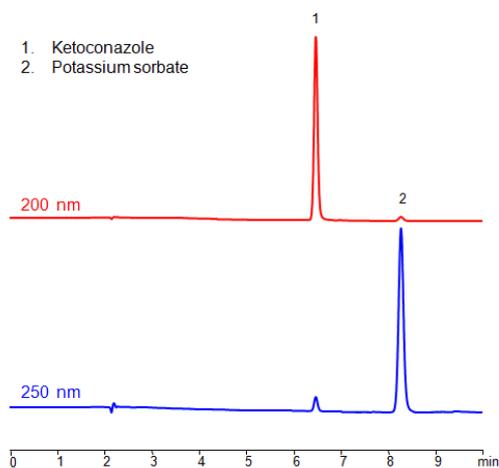


HPLC Method for Separation of Ketoconazole and Potassium Sorbate on Primesep B Column



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:	H ₂ SO ₄ – 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 200, 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 Potassium sorbate 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	Gradient MeCN – 10-50%, 10 min
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 200, 250 nm

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