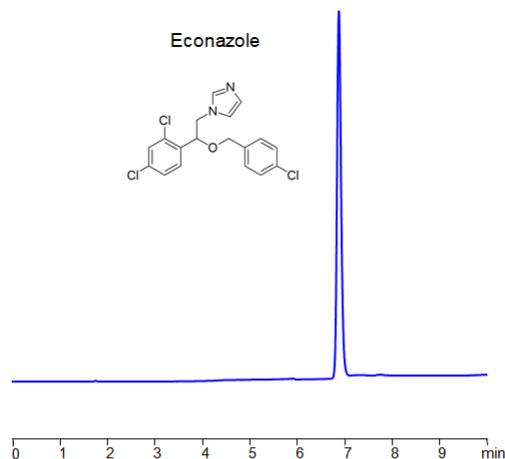


HPLC Method for Analysis of Econazole on Primesep 200 Column



Column:	Primesep 200
Column size:	4.6 x 150 mm, 5 µm
Column part number:	200-46.150.0510
Mobile phase:	Gradient MeCN – 40-70%, 10 min
Buffer:	H ₂ SO ₄ – 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 200 nm

Econazole is an antifungal medication primarily used to treat a variety of fungal skin infections. It belongs to the imidazole class of antifungal agents. Here are some key points about econazole:

Like other imidazole antifungals, econazole works by inhibiting the enzyme responsible for producing ergosterol, a key component of the fungal cell membrane. A lack of ergosterol disrupts the integrity of the fungal cell membrane, leading to the death of the fungus.

Econazole can be retained, and analyzed on a Primesep 200 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 in the UV 200 nm.

Method Parameters

Column	Primesep 200, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 40-70%, 10 min
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV, 200 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-econazole>