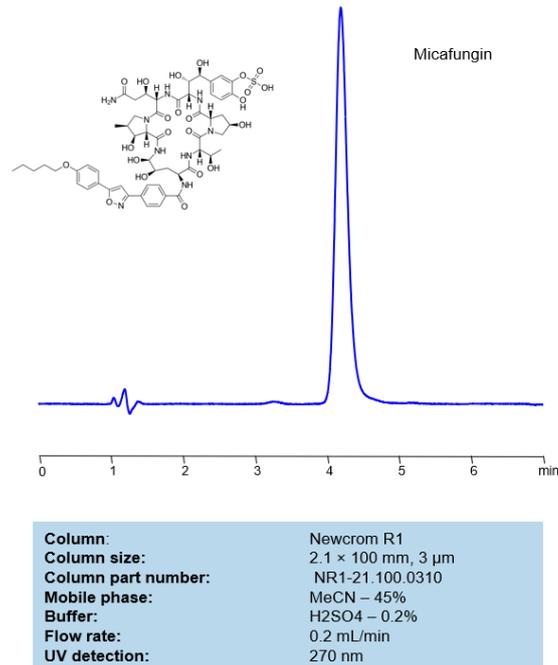


HPLC Method for Determination of Micafungin on Newcrom R1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Micafungin

Micafungin is an anti-fungal medication with the chemical formula C₅₆H₇₁N₉O₂₃S. It is used to treat infections including but not limited to candidemia, abscesses, and esophageal candidiasis. It works through inhibiting the production of beta-1,3-glucan. It is only accessible through prescription.

Micafungin can be retained and analyzed on a Newcrom R1 reverse-phase column using a simple isocratic 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 270 nm with high resolution and peak symmetry.

Method Parameters

Column	Newcrom R1, 2.1 x 100 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN – 45%
Buffer	H2SO4 – 0.2%
Flow Rate	0.2 mL/min
Detection	UV 270 nm
Limit of Detection	0.02 ppm

Quelle: <https://sielc.com/hplc-method-for-determination-of-Micafungin>