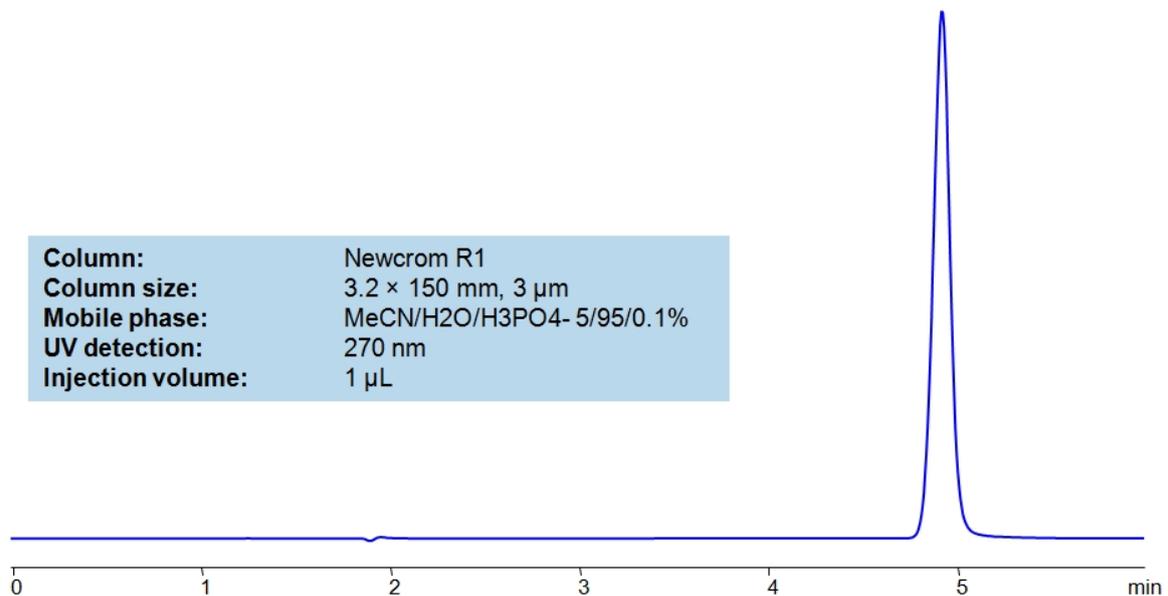


HPLC Method for Analysis of Metronidazole on Newcrom R1 Column



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

Metronidazole is an antibiotic with C₆H₉N₃O₃ molecular formula. It works strongly against anaerobic bacteria and protozoa. It is available as oral tablets, capsules, topical gels, and injections. To truly kill bacteria and prevent infection, a full course of the medication must be completed as prescribed by a doctor.

Metronidazole can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom R1, 3.2 x 150 mm, 3 μm, 100 Å, dual ended
Mobile Phase	MeCN – 5%
Buffer	H ₃ PO ₄ – 0.1%
Flow Rate	0.5 mL/min
Detection	UV 270 nm

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