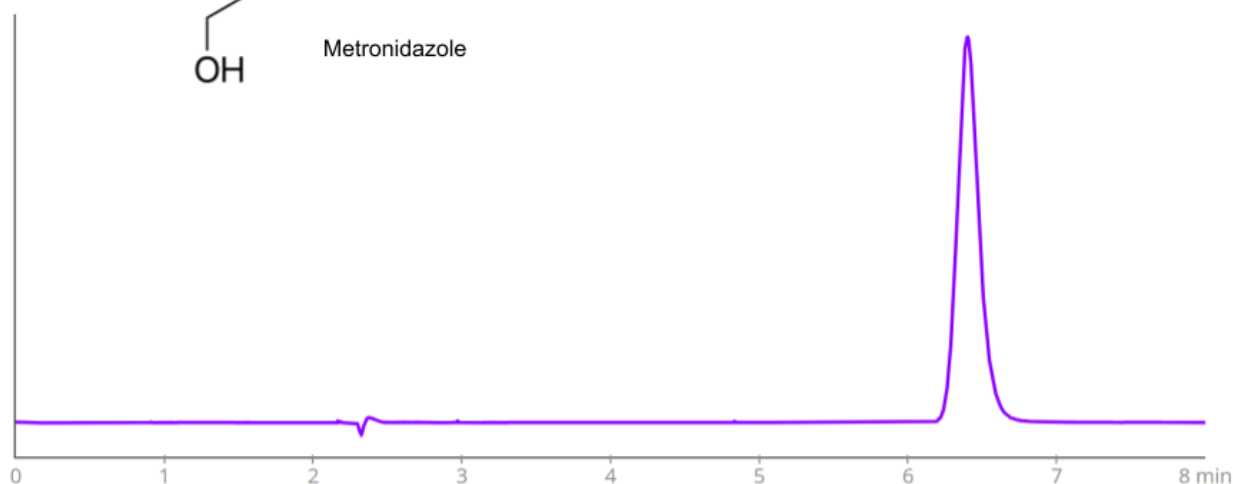
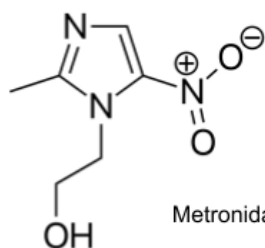


HPLC Method for Analysis of Metronidazole on Newcrom R1 Column on Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-metronidazole-2>

Chromatogram

SIELC



Column	Newcrom R1
Column Size	4.6 x 150 mm, 5µm
Part Number	NR1-46.150.0510
Mobile Phase	MeCN/H ₂ O - 05/95%
Buffer	H ₃ PO ₄ - 0.1%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

· 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

Mobile Phase	MeCN – 5%
Buffer	H3PO4 – 0.21
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Class of Compounds	Antibiotic
Analyzing Compounds	Metronidazole

HPLC Column Used

Newcrom R1, 4.6 x 150 mm, 5 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](#)