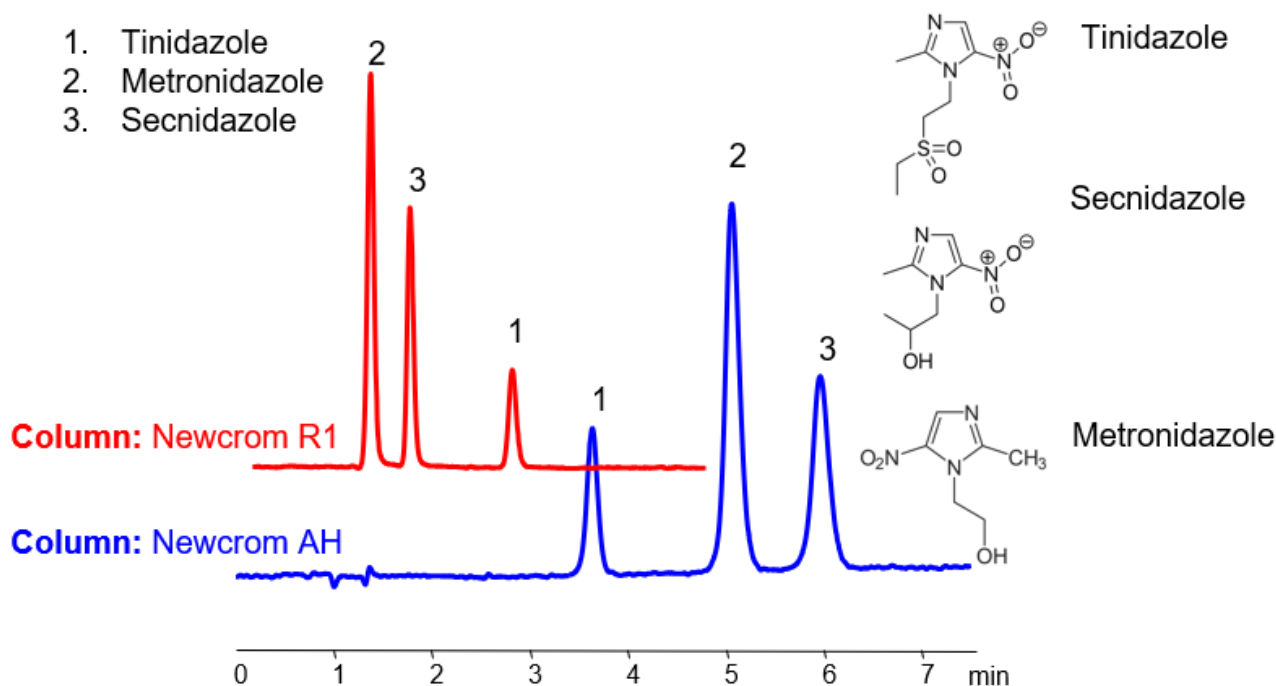


HPLC Method for Analysis of Mixture of Nitroimidazole Antibiotics on Newcrom Type Columns

<https://sielc.com/hplc-method-for-analysis-of-nitroimidazole-antibiotics>

Chromatogram



Column size:	3.2 × 100 mm, 5 µm
Mobile phase:	MeCN/H ₂ O – 20/80%
Buffer:	H ₃ PO ₄ – 0.1%
Flow rate:	0.5 mL/min
Detection:	UV 270 nm

Description

· Separation type: Bridge Ion Separation Technology, or BIST™ by SIELC Technologies

HPLC Method for Analysis of Secnidazole , Tinidazole , Metronidazole on Newcrom AH and Newcrom R1 Column by SIELC Technologies

Tinidazole, metronidazole, and secnidazole are all nitroimidazole antibiotics used to treat bacterial and parasitic infections.

Metronidazole is the most commonly prescribed among the three and is used to treat a wide range of infections, including bacterial vaginosis, trichomoniasis, and certain types of anaerobic bacterial infections.

Tinidazole is similar to metronidazole in its mechanism of action and is used to treat similar infections, but it has a longer half-life and can be administered less frequently.

Secnidazole is a newer nitroimidazole antibiotic with a longer half-life than metronidazole, which allows for a shorter treatment duration. It is used to treat trichomoniasis and certain types of anaerobic bacterial infections.

It is important to note that these antibiotics can have side effects such as nausea, vomiting, and diarrhea, and should only be used as directed by a healthcare professional. Additionally, alcohol should be avoided while taking these medications as they can cause a severe reaction.

Method Parameters

Mobile Phase	MeCN – 20%
Buffer	H3PO4 – 0.1%
Flow Rate	0.5 ml/min
Detection	UV 270 nm
Class of Compounds	Nitroimidazole antibiotics
Analyzing Compounds	Secnidazole, Tinidazole, Metronidazole

HPLC Column Used

Newcrom AH, 3.2 x 100 mm, 5 µm, 100 A, dual ended, Newcrom R1

[Order this column at hplc-shop.de →](http://hplc-shop.de)