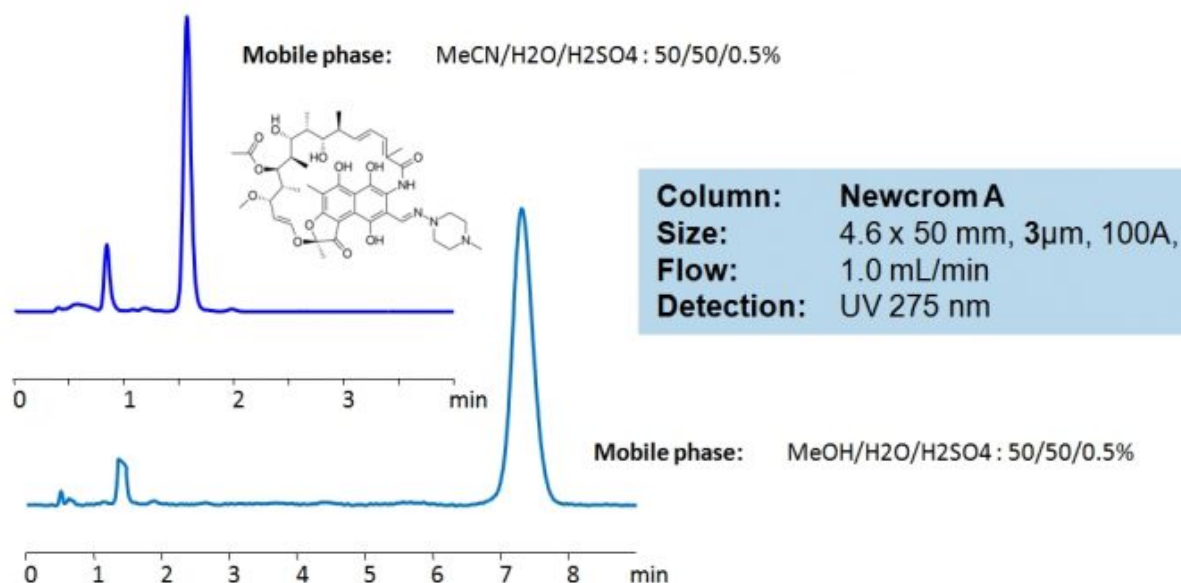


HPLC Determination of Rifampicin on Newcrom A column

<https://sielc.com/hplc-determination-of-rifampicin>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Rifampicin .

Rifampicin is an antibiotic used alongside other antibiotics to treat several types of bacterial infections like tuberculosis and Legionnaires' disease. It works by inhibiting the bacteria's RNA production and is on the World Health Organisation's (WHO) List of essential medicines. It's chemical formula is C₄₃ H₅₈ N₄ O₁₂ .

It can be retained in HPLC on Newcrom A mixed-mode column. The retention characteristics can be controlled by the organic modifier used in the mobile phase, with methanol (MeOH) having a longer retention time in comparison to acetonitrile (ACN). UV detection at 275nm.

Method Parameters

Mobile Phase	MeOH, MeCN
Buffer	H ₂ SO ₄ – 0.5%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Class of Compounds	Hydrophobic, Drugs, Antibiotics
Analyzing Compounds	Rifampicin

HPLC Column Used

Newcrom A, 4.6 x 50 mm, 3 µm, 100 A, dual ended

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