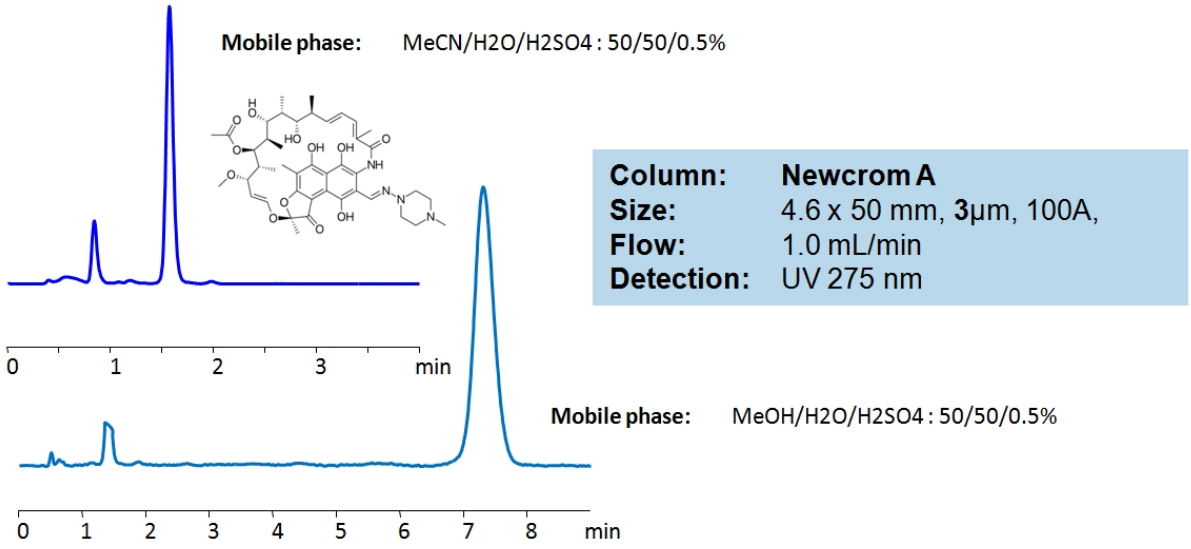
HPLC Determination of Rifampicin on Newcrom A column



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 C43H58N4O12 .

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 275 nm.

Method Parameters

Column	Newcrom A, 4.6 x 50 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeOH, MeCN
Buffer	H2SO4 – 0.5%
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: https://sielc.com/hplc-determination-of-rifampicin

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