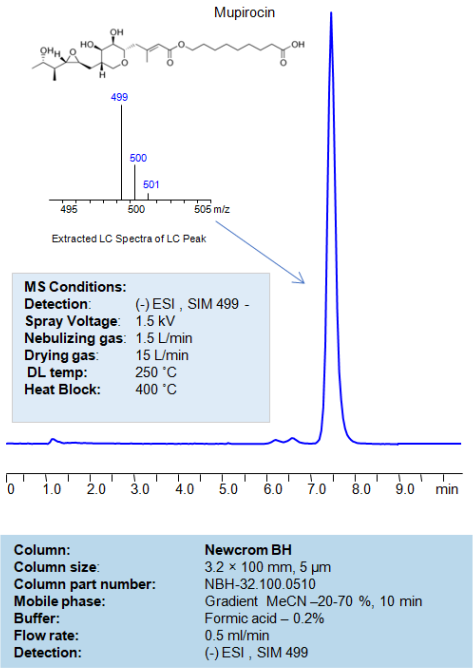
LC-MS Method for Analysis of Mupirocin on Newcrom BH Column



Separation type: Liquid Chromatography Mixed-mode

Mupirocin is an antibiotic ointment commonly used for the treatment of bacterial skin infections.

Topical Mupirocin: Commonly prescribed for skin infections caused by Staphylococcus and Streptococcus bacteria. It is effective against both methicillin-sensitive Staphylococcus aureus (MSSA) and methicillin-resistant Staphylococcus aureus (MRSA). It is also used to eliminate nasal colonization of MRSA in some healthcare settings. Formulation: Mupirocin is typically available as a topical ointment or cream. There is also a nasal formulation for specific uses.

Mupirocin can be retained, separated, and analyzed on a mixed-mode Newcrom BH column with a mobile phase consisting of water, Acetonitrile (MeCN), and Ammonium Formate. This analytical method can be detected with high resolution and peak symmetry with many evaporative detection methods, including Evaporative Light Scattering Detection (ELSD), Charged Aerosol Detector (CAD), and Electrospray Ionization (ESI) for Mass Spectrometry (MS).

Method Parameters

Column	Newcrom BH, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 20-70%, 10 min
Buffer	Formic acid – 0.2%
Flow Rate	0.5 mL/min
Detection	(-) ESI , SIM499 –

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de

Quelle: https://sielc.com/hplc-determination-of-mupirocin-ms

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de