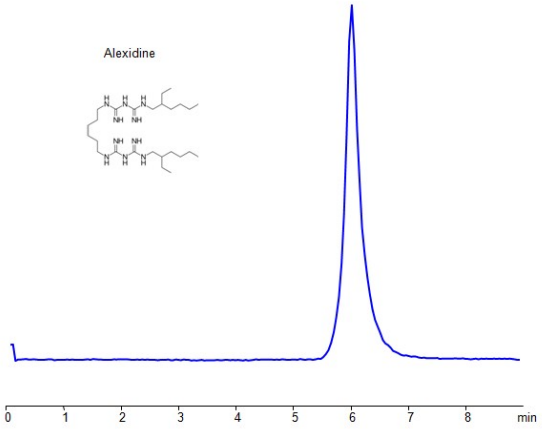
HPLC MS Method for Analysis of Alexidine on Primesep N Column



Column:	Primesep N
Column size:	2.1 × 100 mm, 5 µm
Column part number:	N-21.100.0510
Mobile phase:	MeCN/H_2O – 85/15%
Buffer:	Ammonium Formate pH 3.0 – 10 mM
Flow rate:	0.2 mL/min
Sample:	0.05 mg/ml in MeCN/H_2O – 50/50%
Injection volume:	1 µl
Detection:	SIM 255+, 509+
LOD:	20 ppb

Separation type: Liquid Chromatography Reversed-phase

Alexidine is a chemical compound that belongs to the class of bis-biguanide antiseptics. It is known for its antimicrobial properties and is used in various products for disinfection and antiseptic purposes. Alexidine has broad-spectrum antimicrobial activity, and it is commonly used in healthcare settings for its effectiveness against bacteria, fungi, and some viruses.

Alexidine can be retained and analyzed on a Primesep N mixed-mode stationary phase column using an analytical method with a simple mobile phase of water, Acetonitrile (MeCN) , and a ammonium formate as a buffer. This analysis method can be detected using LC MS.

Method Parameters

Column	Primesep N, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 85/15%
Buffer	Ammonium Formate pH 3.0 – 10 mM
Flow Rate	0.2 mL/min
Detection	SIM255+, 509+

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