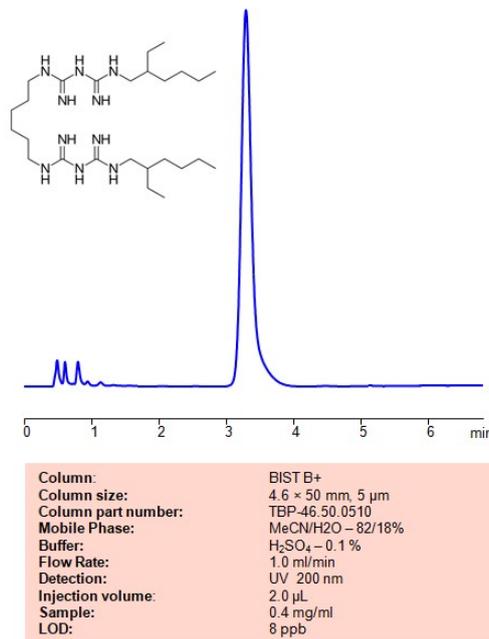


## HPLC Method for Analysis of Alexidine on BIST B+ Column



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

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.

**Topical Antiseptics:** In some formulations, alexidine is used as a topical antiseptic to disinfect skin and mucous membranes.

**Oral Care Products:** It is found in some mouthwashes and oral care products due to its antimicrobial properties.

**Contact Lens Solutions:** Alexidine is sometimes used in contact lens solutions to prevent microbial contamination.

**Wound Care Products:** It may be included in certain wound care products for its ability to prevent infection.

Alexidine can be retained and analyzed on a BIST B+ mixed-mode stationary phase column using an analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid as a buffer. This analysis method can be detected using UV at 200 nm.

## Method Parameters

<b>Column</b>	BIST B+, 4.6 x 50 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 82%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 200 nm, UV λ <sub>max</sub> : 237 nm
<b>Limit of Detection</b>	8 ppb
<b>Sample</b>	0.4 mg/ml in MeCN/H <sub>2</sub> O – 82/18%
<b>Injection Volume</b>	2 µl

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