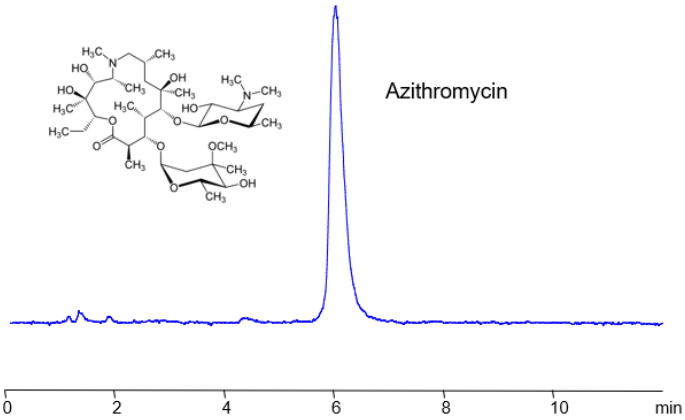
HPLC Method for Determination of Azithromycin on Primesep 200 Column



Column:	Primesep 200
Column size:	2.1 × 100 mm, 5 µm
Column part number:	200-21.100.0510
Mobile phase:	MeCN/H_2O – 75/25%
Buffer:	Ammonium Formate pH 3.0 – 50 mM
Flow rate:	0.2 mL/min
Detection:	ELSD, 50C

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

Azithromycin is an antibiotic with the chemical formula C38H72N2O12 . It is used in the treatment of various bacterial infections including but not limited to pneumonia, strep throat, and STI. As a medication, it is available in a variety of forms: tablets, capsules, injections, and solutions. It is on the WHOs list of essential medicines and is classified as critically important.

In reversed-phase HPLC, it generally exhibits significant tailing. The tailing can be substantially reduced by using a mixed-mode Primesep 200 column with a simple MS-compatible mobile phase of water, acetonitrile (ACN) and ammonium formate (AmFm) buffer.

Method Parameters

Column	Primesep 200, 2.1 x 50 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 75%
Buffer	Ammonium Formate pH 3.0 – 50 mM
Flow Rate	0.2 mL/min
Detection	ELSD, 50C

Quelle: https://sielc.com/hplc-method-for-determination-of-Azithromycin