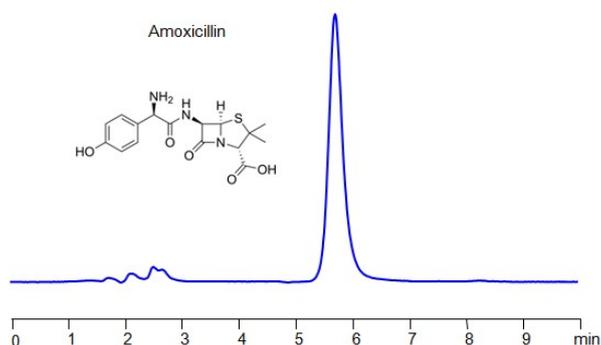


HPLC MS Method for Analysis of Amoxicillin on Primesep 100 Column



Column:	Primesep 100
Column size:	2.1 × 100 mm, 5 µm
Column part number:	100-21.100.0510
Mobile phase:	MeCN – 20%
Buffer:	Ammonium formate pH 3.0 – 15 mM
Flow rate:	0.2 mL/min
Sample:	1 mg/ml
Injection volume:	5 µl
LOD:	0.3 ppm
Detection:	UV 272 nm, SIM + 349, 366

Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Amoxicillin is a widely used antibiotic belonging to the penicillin class. It is used to treat a variety of bacterial infections, including respiratory tract infections, ear infections, skin infections, urinary tract infections, and certain types of bacterial endocarditis.

Amoxicillin can be retained and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and ammonium formate as a buffer. This method allows for detection using UV at 272 nm

Method Parameters

Column	Primesep 100, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN20%
Buffer	AmFm pH 3.0 – 15 mM
Flow Rate	0.2 mL/min
Detection	UV 272 nm, SIM + 349, 366
Injection Volume	5 µl

Quelle: <https://sielc.com/hplc-ms-method-for-analysis-amoxicillin>