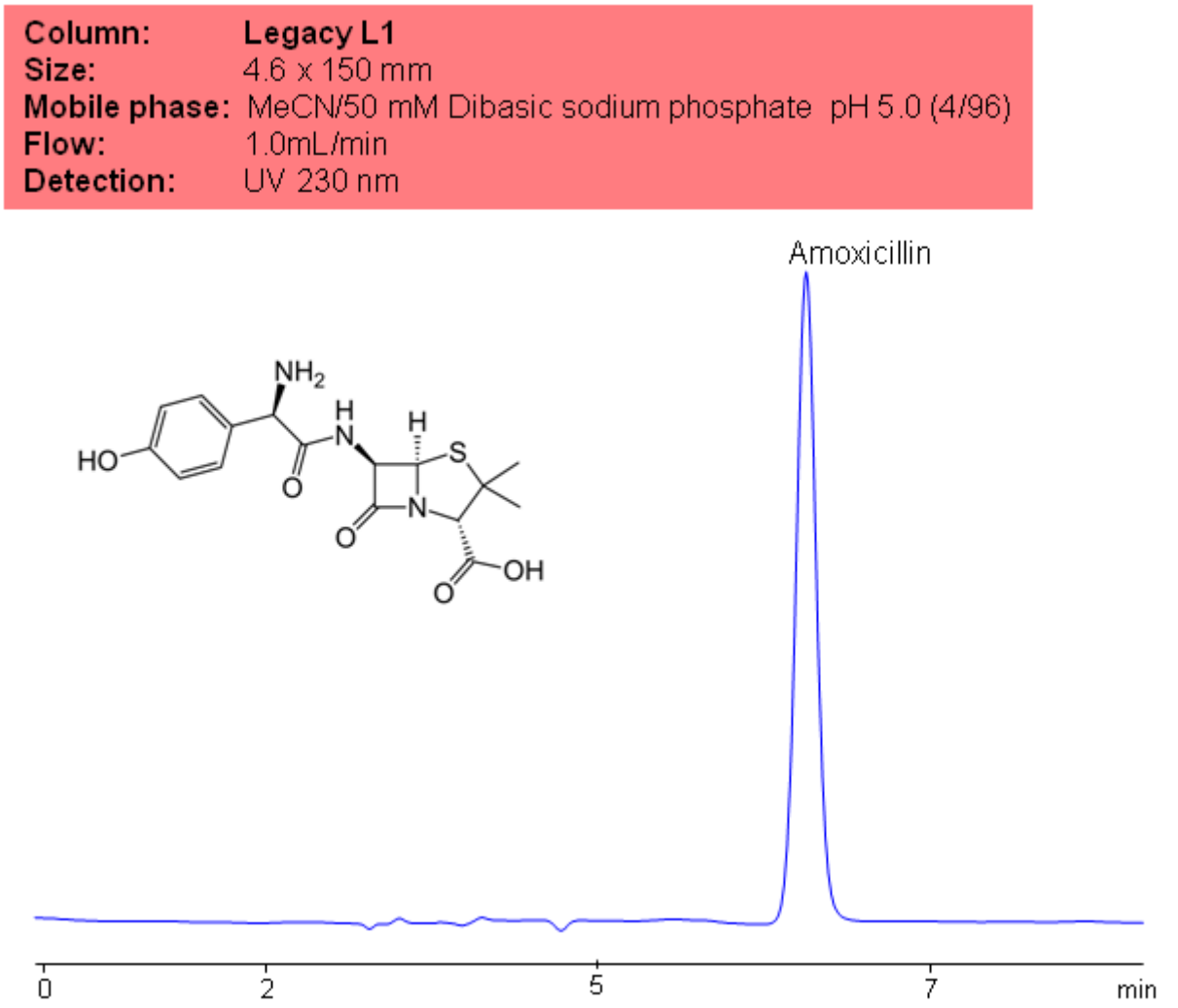
USP Method for the Analysis of Amoxicillin using the Legacy L1 Column

https://sielc.com/Application-USP-Method-for-the-Analysis-of-Amoxicillin-using-the-Legacy-L1-Column

Chromatogram



Description

Application Notes: Amoxicillin is one of the most commonly prescribed antibiotics. It is often used for treating strep throat. According to USP methods, amoxicillin should not contain less than 900ug and no more than 1050ug of amoxicillin per mg. The USP HPLC method for the separation of amitriptyline was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing C18 ligand. Support for the material is spherical silica gel with particles size 3-10 um and pore size of 100-120A. Resolution between critical pairs corresponds to rules and specifications of UPS.

Application Columns: Legacy L1 C18 HPLC column · Application compounds: Amoxicillin · Mobile phase: MeCN/50 mM dibasic sodium phosphate · Detection technique: UV · Source: USP35: NF30

Method Parameters

Mobile Phase	MeCN/50 mM NaH2PO4 pH 5.0 (4/96)
Buffer	NaH2PO4
Flow Rate	1.0 ml/min

Detection	UV, 230 nm
Class of Compounds	Drug, Antibiotics, Hydrophobic, Ionizable
Analyzing Compounds	Amoxicillin

HPLC Column Used

Legacy L1, 4.6×150 mm, 5 µm, 100A

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