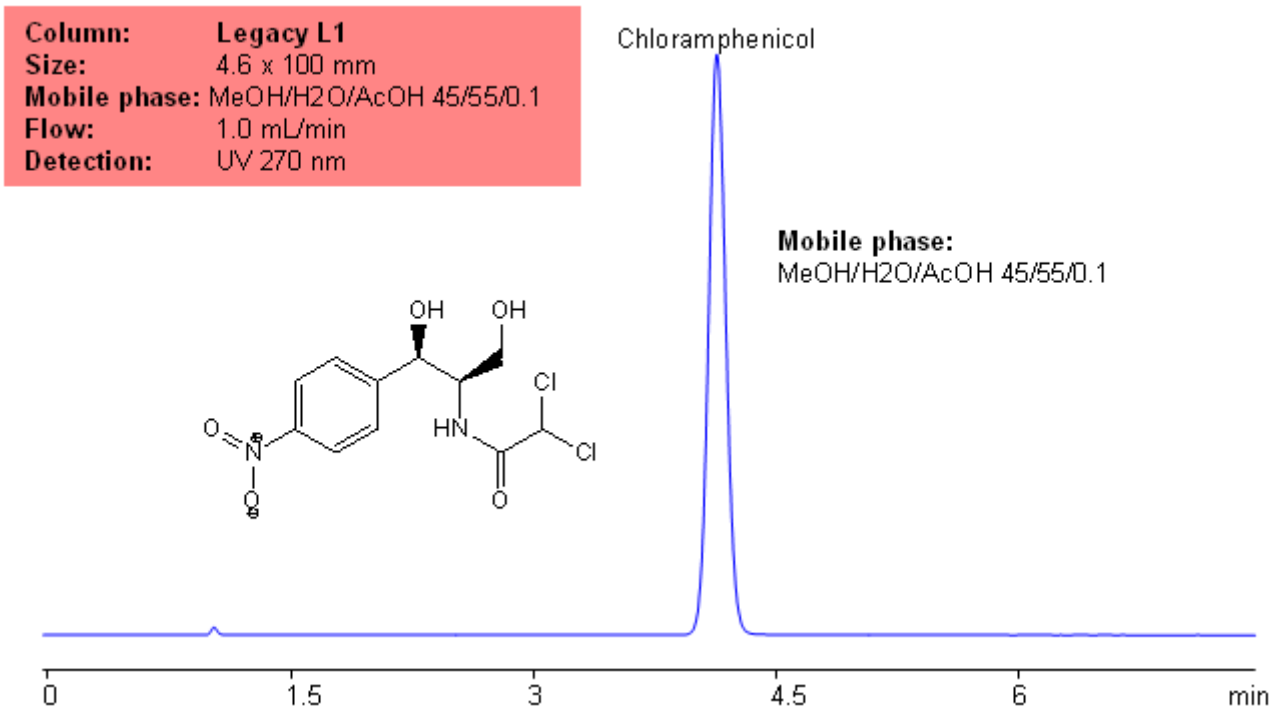
USP Methods for Chloramphenicol using a Legacy L1 Column

https://sielc.com/Application-USP-Methods-for-Chloramphenicol-using-a-Legacy-L1-Column

Chromatogram



Description

Application Notes: Chloramphenicol is a common broad spectrum antibiotic developed in the 1940's. According to the USP methods, chloramphenicol should contain no less than 97.0% and no more than 103% of chloramphenicol calculated on a dried basis. The USP HPLC method for the analysis of chloramphenicol 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.

Application Columns: Legacy L1 C18 HPLC column · Application compounds: Chloramphenicol · Mobile phase: MeOH/H2O/AcOH 45/55/0.1 · Detection technique: UV · Reference: USP 30: NF35

Method Parameters

Mobile Phase	MeOH/H2O/AcOH 45/55/0.1
Buffer	AcOH
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Hydrophobic, Ionizable
Analyzing Compounds	Chloramphenicol

HPLC Column Used

Legacy L1, 4.6×150 mm, 5 µm, 100A
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