

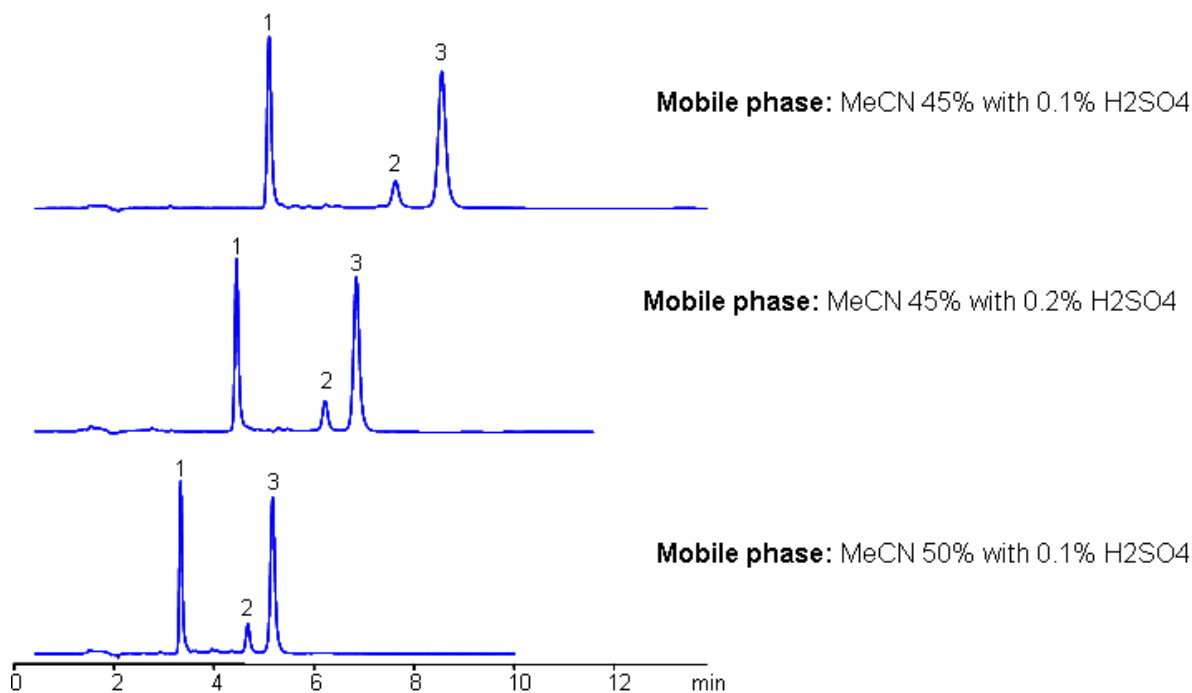
Separation of Oxytetracycline and Chlortetracycline in Mixed-Mode

https://sielc.com/Separation_of_Oxytetracycline_and_Chlorotetracycline_in_Mixed-Mode

Chromatogram

1. Oxytetracycline
2. Impurity of Chlortetracycline
3. Chlortetracycline

Column: Primesep 100
Size: 4.6 x 150 mm, 3 μ m
Flow: 1.0 mL/min
Detection: UV 250 nm



Description

Oxytetracycline and chlortetracycline are polar compounds related to broad-spectrum of tetracycline group of antibiotics. Slight hydrophobicity and presence of the basic group in both compounds allow to employ mixed-mode reversed-phase cation-exchange mechanism for separation of these compounds. Method can be used for analysis of antibiotics and related impurities with LC/MS compatible conditions.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	H ₂ SO ₄
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable
Analyzing Compounds	Oxytetracycline, Chlortetracycline

HPLC Column Used

Primesep 100, 4.6×150 mm, 3 µm, 100A

[Order this column at hplc-shop.de](http://hplc-shop.de) →