

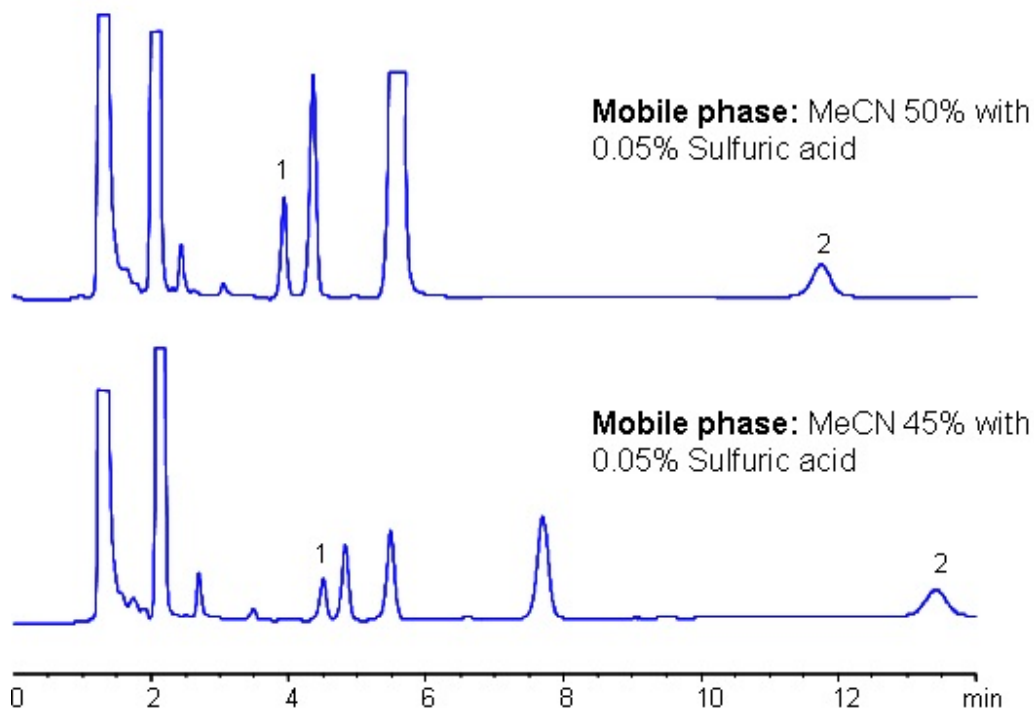
HPLC Retention Control of Antibiotics (Metronidazole and Norfloxacin) in Toothpaste

https://sielc.com/HPLC_Retention_Control_of_Antibiotics_in_Toothpaste

Chromatogram

1. Metronidazole
2. Norfloxacin

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



Description

Commercially available toothpaste has been known to include antibiotics. To demonstrate the retention control on the mixed-mode column Primesep 100, toothpaste was spiked with the antibiotics metronidazole and norfloxacin. In a 13 minute method, retention of the antibiotics was controlled by adjustment in ratio of organic in the mobile phase. This method demonstrates the flexibility of using mixed-mode columns such as Primesep 100.

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, Antibiotics, Hydrophilic, Ionizable
Analyzing Compounds	Metronidazole, Norfloxacin

HPLC Column Used

Primesep 100, 4.6×150 mm, 5 µm, 100A

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