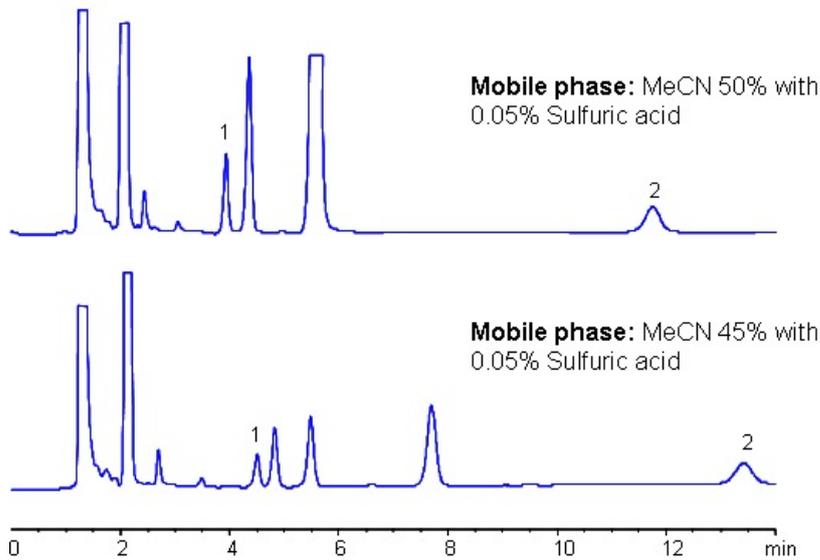


HPLC Retention Control of Antibiotics (Metronidazole and Norfloxacin) in Toothpaste

1. Metronidazole
2. Norfloxacin

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



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

Column	Primesep 100, 4.6x150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H ₂ O
Buffer	H ₂ SO ₄
Flow Rate	1.0 mL/min
Detection	UV, 250 nm

Quelle: https://sielc.com/HPLC_Retention_Control_of_Antibiotics_in_Toothpaste