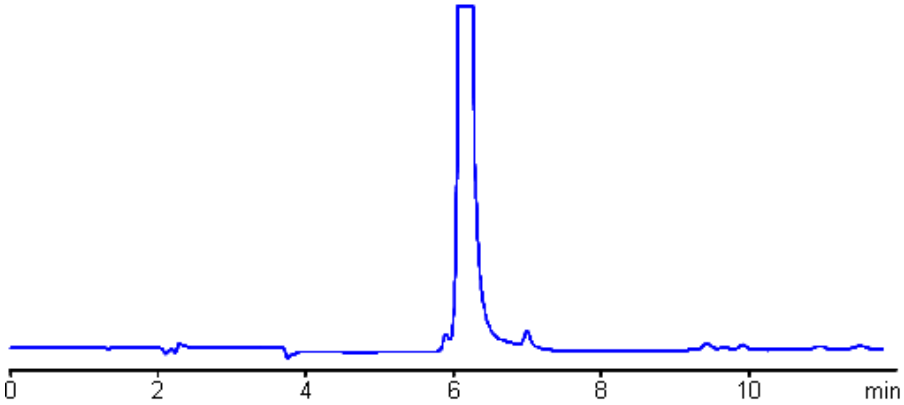
Analysis of Antibiotic Marbofloxacin and Related Impurities in Mixed-Mode Chromatography

https://sielc.com/Analysis_of_Antibiotic_Marbofloxacin_and_Related_Impurities_in_Mixed-Mode_Chromatography

Chromatogram

Column: **Obelisc R**
Size: 4.6 x 150 mm
Mobile phase: MeCN gradient 0% to 25% in 6 min , then to 70% next 14 min, Formic acid gradient 0.05% to 0.3% in 6 min, 0.3% next 14 min
Flow: 1.0 mL/min
Detection: UV 270 nm



Description

Marbofloxacin is carboxylic acid derivative related to fluoroquinolone antibiotics. Method for analysis of marbofloxacin and related impurities was developed on Obleisc R and Primesep D mixed-mode column. Obelisc R is tri-modal reversed-phase, cation- and anion-exchange column. Primesep D is mixed-mode reversed-phase anion-exchange column.

Method Parameters

Mobile Phase	Gradient MeCN – 5-50%, 10 min, 3 min hold
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Antibiotic, Drug, Hydrophobic, Ionizable
Analyzing Compounds	Marbofloxacin

HPLC Column Used

Primesep D, 4.6×150 mm, 5 µm, 100A

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