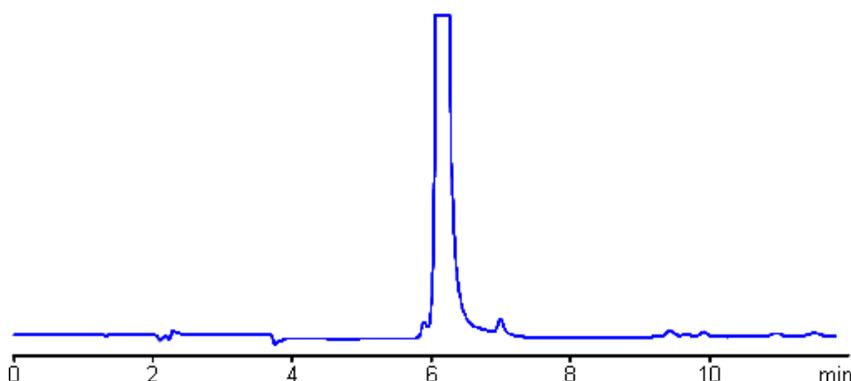


## Analysis of Antibiotic Marbofloxacin and Related Impurities in Mixed-Mode Chromatography

**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



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

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

### Method Parameters

<b>Column</b>	Primesep D, 4.6x150 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	Gradient MeCN – 5-50%, 10 min, 3 min hold
<b>Buffer</b>	H2SO4 – 0.1%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 250 nm

Quelle:

[https://sielc.com/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)