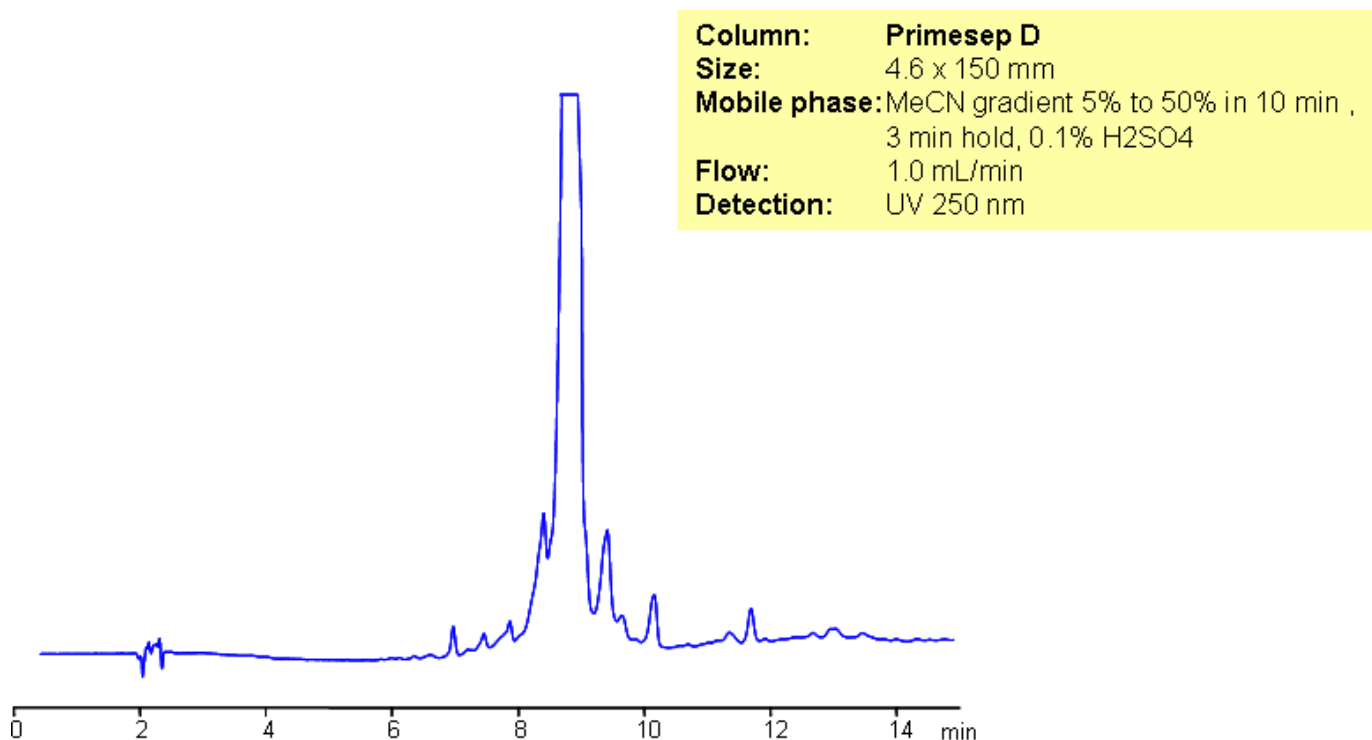


# Analysis of Antibiotic Josamycin and Related Impurities on Primesep D Column

[https://sielc.com/Analysis\\_of\\_Antibiotic\\_Josamycin\\_and\\_Related\\_Impurities\\_in\\_Mixed-Mode\\_Chromatography](https://sielc.com/Analysis_of_Antibiotic_Josamycin_and_Related_Impurities_in_Mixed-Mode_Chromatography)

## Chromatogram



## Description

Josamycin is a macrolide antibiotic effective against gram-positive bacteria. It is highly polar and does not retain well on reversed-phase columns. The Mixed-mode column Obelisc R was used to retain josamycin and its related impurities. Primesep D was also used to analyze josamycin impurities because Primesep D does not retain high-molecular weight plasma components. This method is compatible with LC/MS, prep chromatography and can be used for analysis of josamycin in biofluids.

## Method Parameters

<b>Mobile Phase</b>	Gradient MeCN – 5-50%, 10 min, 3 min hold
<b>Buffer</b>	H <sub>2</sub> SO <sub>4</sub> – 0.1%
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV, 250 nm
<b>Class of Compounds</b>	Antibiotic, Drug, Hydrophobic, Ionizable
<b>Analyzing Compounds</b>	Josamycin

## HPLC Column Used

**Primesep D, 4.6x150 mm, 5 µm, 100A**

[Order this column at hplc-shop.de →](#)