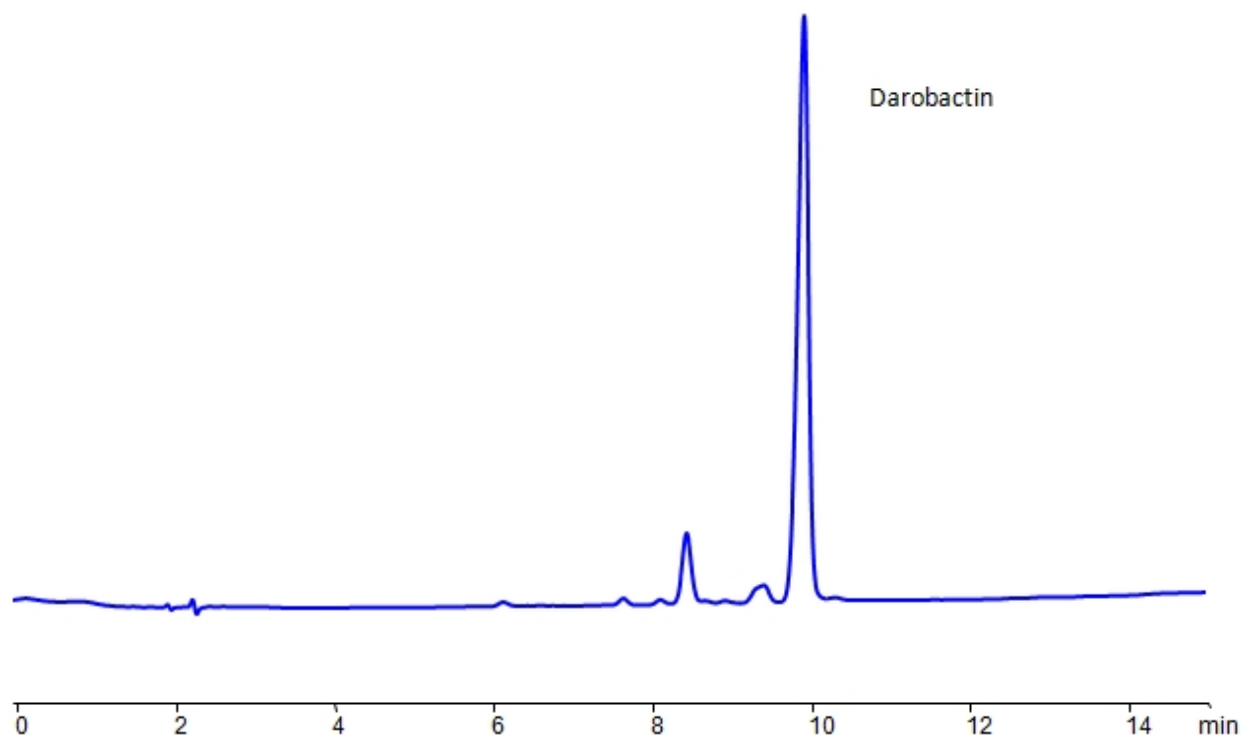


HPLC Determination of Darobactin on Primesep Columns

<https://sielc.com/hplc-determination-of-darobactin>

Chromatogram



Column:	Primesep 200
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	Gradient MeCN – 20 - 50 %, 15 min
Buffer:	Gradient Ammonium Formate pH 3.0 - 50 - 250 mM, 15 min
Flow rate:	1.0 ml/min
UV Detection:	280 nm
Injection volume:	5 µL
Sample:	0.1 mg/ml in 0.1% Formic Acid in H ₂ O

HPLC Determination of Darobactin on Primesep 200 Column_1212

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Darobactin

The compound was discovered in *Photobacterium* bacteria in 2019, living in the digestive systems of entomopathogenic nematodes. Researchers identified the nematode as a possible host because they feed on insects by targeting their larvae and releasing bacteria that then confront pathogens similar to those found in humans.

In experiments, it cured mice of *Escherichia coli* and *Klebsiella pneumoniae* infections, without toxic side effects.

Method Parameters

Mobile Phase	Gradient MeCN
Buffer	Ammonium Formate pH 3.0

Flow Rate	1.0 ml/min
Detection	UV 280 nm
Class of Compounds	Antibiotic
Analyzing Compounds	Darobactin

HPLC Column Used

Primesep 200, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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