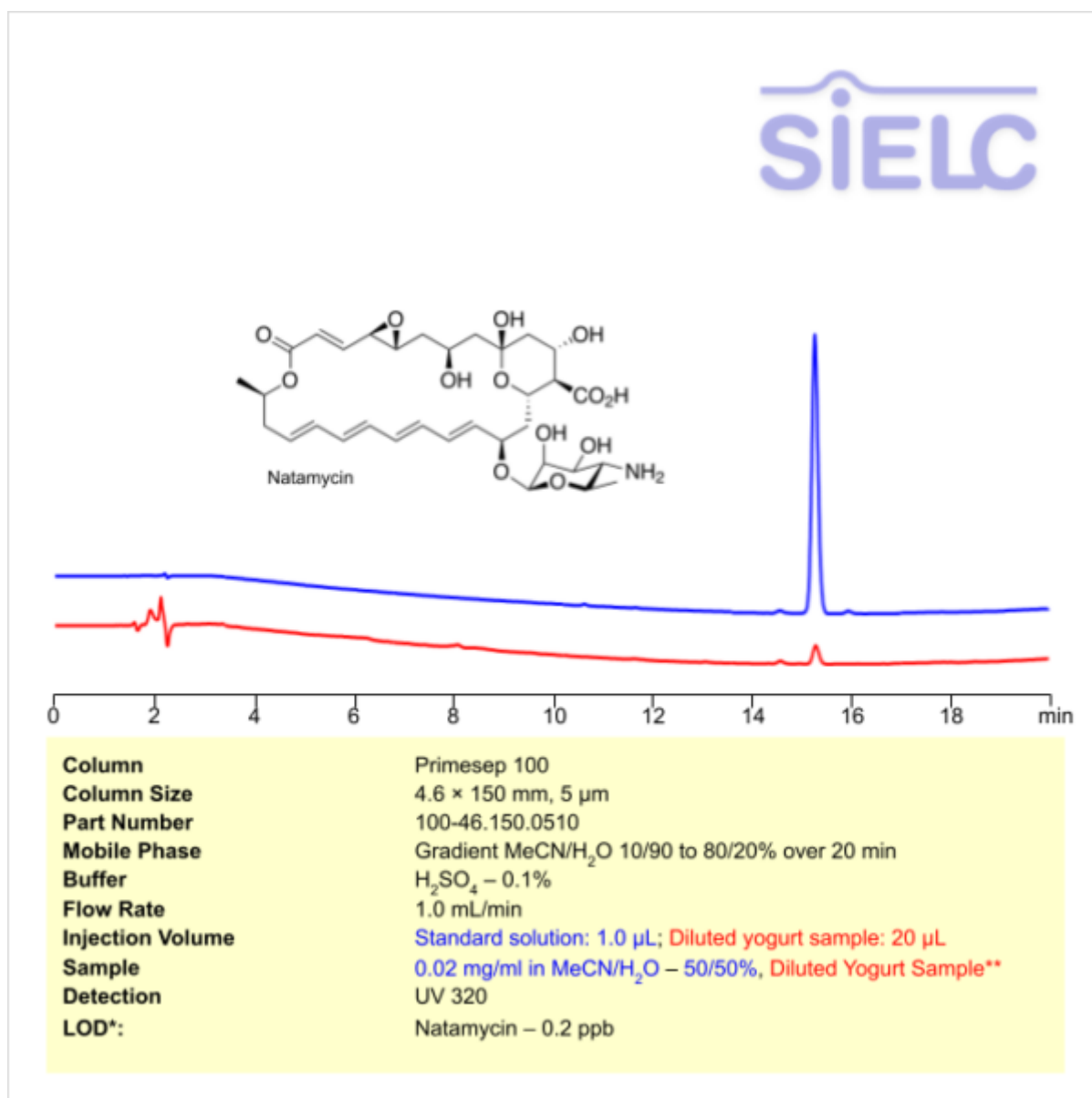


HPLC UV Method for Analysis of Natamycin in Yogurt on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-of-natamycin-in-yogurt>

Chromatogram



Description

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

Natamycin , also known as pimaricin , is an antifungal medication with C₃₃H₄₇NO₁₃ molecular formula. It is primarily used to treat fungal infections of eyelids, conjunctiva, and cornea. On occasion, it is also used as a preservative. It prevents fungi growth by binding to ergosterol in fungal cell membranes and inhibiting amino acid and glucose transport proteins. You can find detailed UV spectra of Natamycin and information about its various lambda maxima by visiting the following link.

**The Yogurt sample was prepared by mixing 5g of yogurt and 5g of acetonitrile. After the mixture separated, the liquid half was removed and filtered.

Natamycin can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) and ethanol. Detection is performed using UV.

Method Parameters

Mobile Phase	Gradient MeCN/H ₂ O 10/90 to 80/20% over 20 min
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 ml/min
Detection	UV 320 nm
Limit Of Detection*	Natamycin – 0.2 ppb
Class of Compounds	Drug
Analyzing Compounds	Natamycin

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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