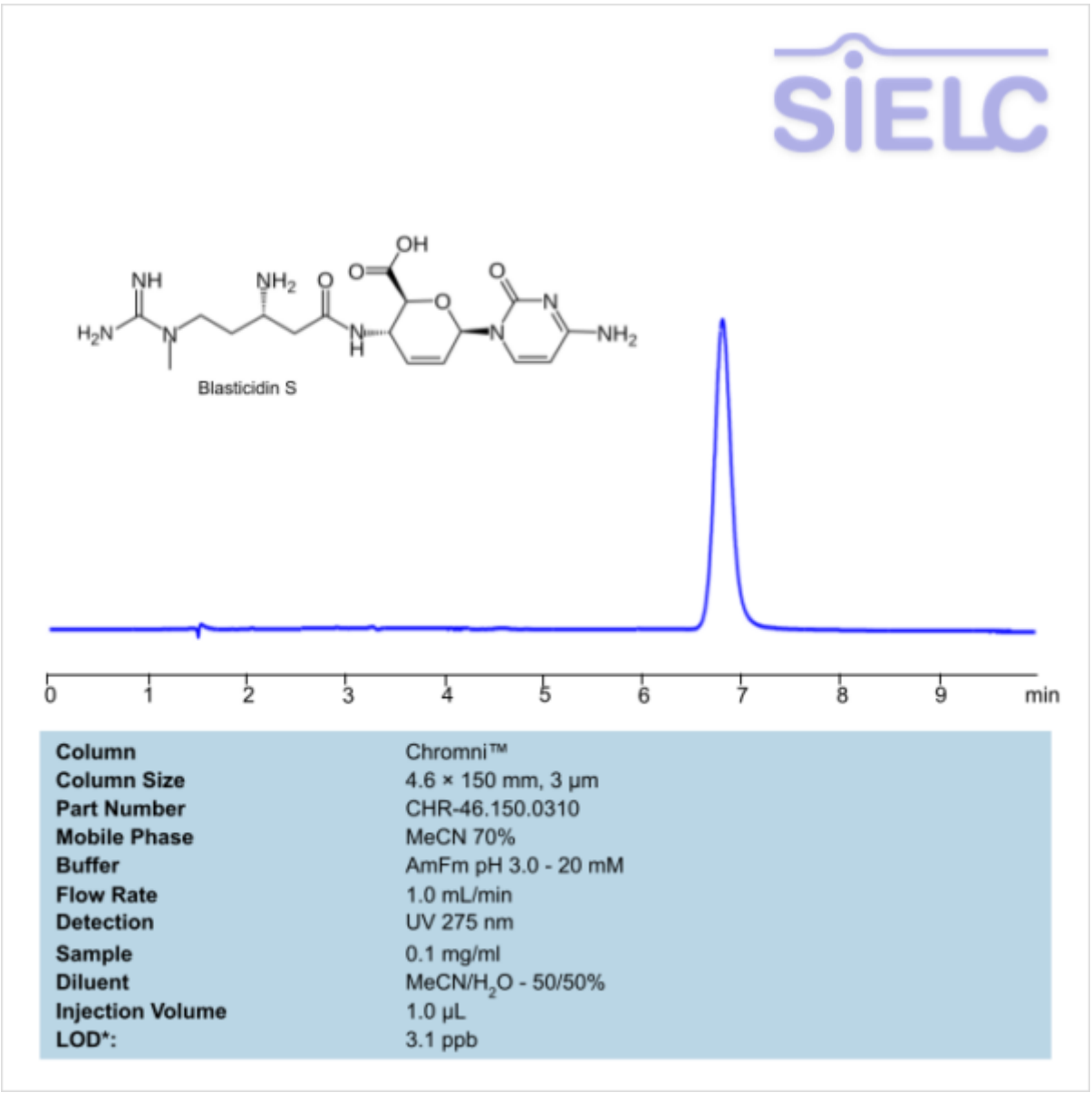
HPLC UV Method for Analysis of Blasticidine S on Chromni Column

https://sielc.com/hplc-uv-analysis-of-blasticidin-s

Chromatogram



Column	Chromni™
Column Size	4.6 × 150 mm, 3 µm
Part Number	CHR-46.150.0310
Mobile Phase	MeCN 70%
Buffer	AmFm pH 3.0 - 20 mM
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Sample	0.1 mg/ml
Diluent	MeCN/H_2O - 50/50%
Injection Volume	1.0 µL
LOD*:	3.1 ppb

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Blasticidin-S

Blasticidin S is an antibiotic with the chemical formula C 17 H 26 N 8 O 5 . It is primarily used in biology research for selecting cells of interest among cell cultures. It works through disrupting protein translation within human cells, fungi, and bacteria due to it’s resemblance to cytidine. You can find detailed UV spectra of Blasticidin-S and information about its various lambda maxima by visiting the following link.

Blasticidin-S can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes an isocraticmethod with a simple mobile phase consisting of acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H2O – 70/30

Buffer	Ammonium Formate pH 3.0 – 20 mM
Flow Rate	1.0 ml/min
Detection	UV 275nm
Limit of Detection*	3.1 ppb
Class of Compounds	Antibiotic
Analyzing Compounds	Blasticidin-S

HPLC Column Used

Chromni, 4.6 x 150 mm, 3 µm, 100 A, dual ended

Order this column at hplc-shop.de →