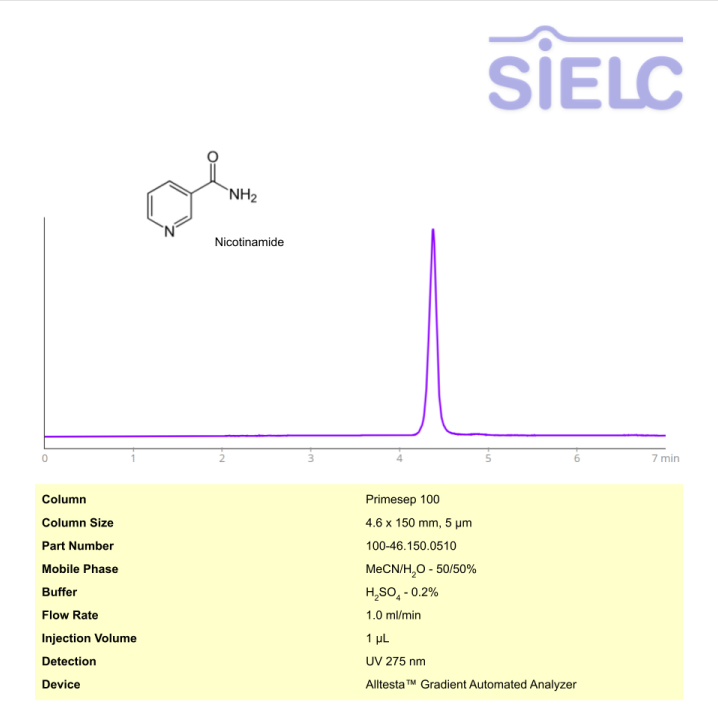
HPLC Method for Analysis of Nicotinamide on Primesep 100 Column on Alltesta™



Column	Primesep 100
Column Size	4.6 x 150 mm, 5 µm
Part Number	100-46.150.0510
Mobile Phase	MeCN/H_2O - 50/50%
Buffer	H_2SO_4 - 0.2%
Flow Rate	1.0 ml/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

High Performance Liquid Chromatography (HPLC) Method for Analysis of Nicotinamide

Nicotinamide , also known as niacinaminde , is a form of vitamin B3 with the chemical formula C6H6N2O2 . It is preferred treatment for pellagra and is a common treatment for acne due to it's anti-inflammatory properties. If consumed daily, it is shown to decrease the risk of skin cancers other than melanoma.

Nicotinamide can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-nicotinamide