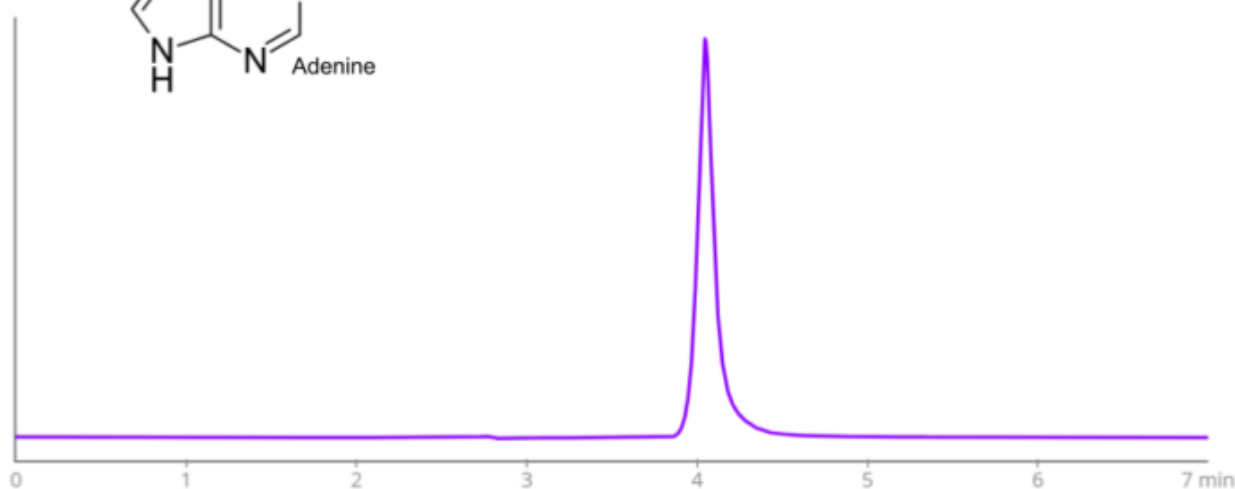
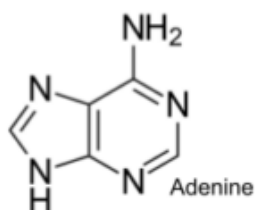


HPLC Method for Analysis of Adenine on Primesep 100 Column with Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-adenine-alltesta>

Chromatogram

siELC



Column	Primesep 100
Column Size	3.2 x 150 mm, 5 µm
Part Number	100-32.150.0510
Mobile Phase	MeCN/H ₂ O - 50/50%
Buffer	H ₂ SO ₄ - 0.1%
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

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

Adenine is a chemical compound with the molecular formula C₅H₅N₅. It is a building block for DNA and RNA as one of the four essential nucleotide bases. It is vital as a part of the main energy-carrying molecule in cells. When in DNA, it pairs with thymine, while in RNA, it pairs with uracil.

Adenine 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 a sulfuric acid buffer. Detection is performed

using UV.

Method Parameters

Mobile Phase	MeCN – 50%
Buffer	Sulfuric Acid
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Class of Compounds	Nucleotide Base
Analyzing Compounds	Adenine

HPLC Column Used

Primesep 100, 3.2 x 150 mm, 5 µm, 100 A, dual ended

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