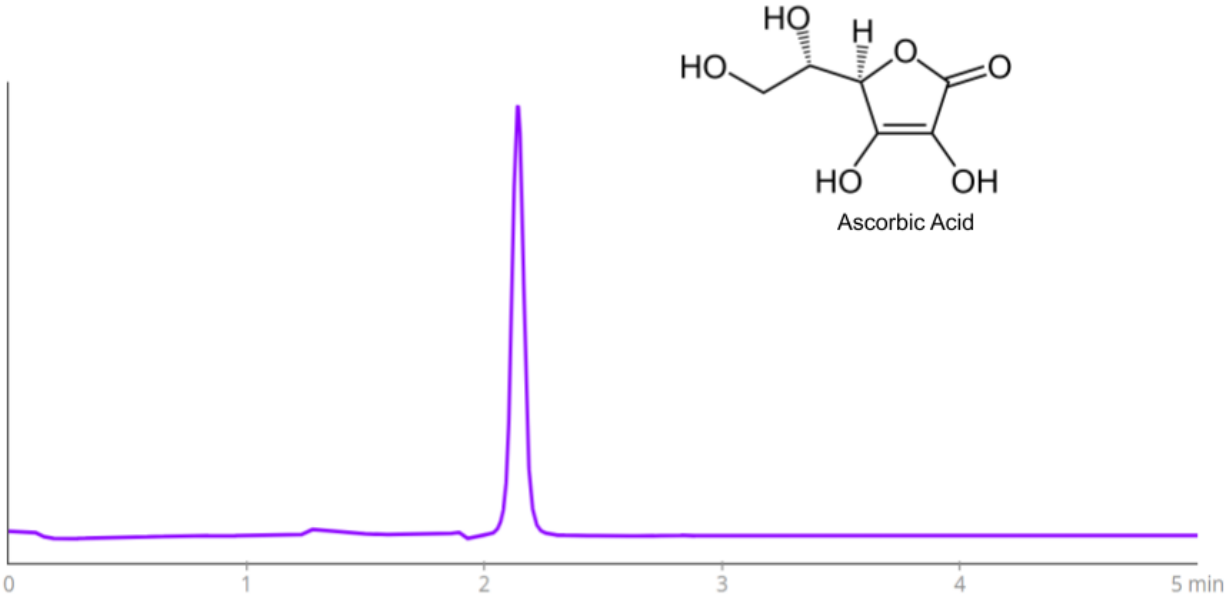
HPLC Method for Analysis of Ascorbic Acid on Primesep SB Column on Alltesta™

https://sielc.com/hplc-method-for-analysis-of-ascorbic-acid-2

Chromatogram



Column	Primesep SB
Column Size	4.6 x 150 mm, 5 µm
Part Number	SB-46.150.0510.
Mobile Phase	MeCN/H_2O - 50/50%
Buffer	H_2PO_4 - 0.2%
Flow Rate	1.0 ml/min
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

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

Ascorbic Acid is a vitamin with the molecular formula C 6 H 8 O 6 . Typically, it is used to treat scurvy, support immune system, and preserve food. It is a white to light yellow powder that is easily dissolved in water. It can be found in a large variety of fruits and vegetables, especially in citrus fruits.

Ascorbic Acid can be retained and analyzed using the Primesep SB 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	SulfuricAcid
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Class of Compounds	Vitamin
Analyzing Compounds	Ascorbic Acid

HPLC Column Used

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

Order this column at hplc-shop.de →