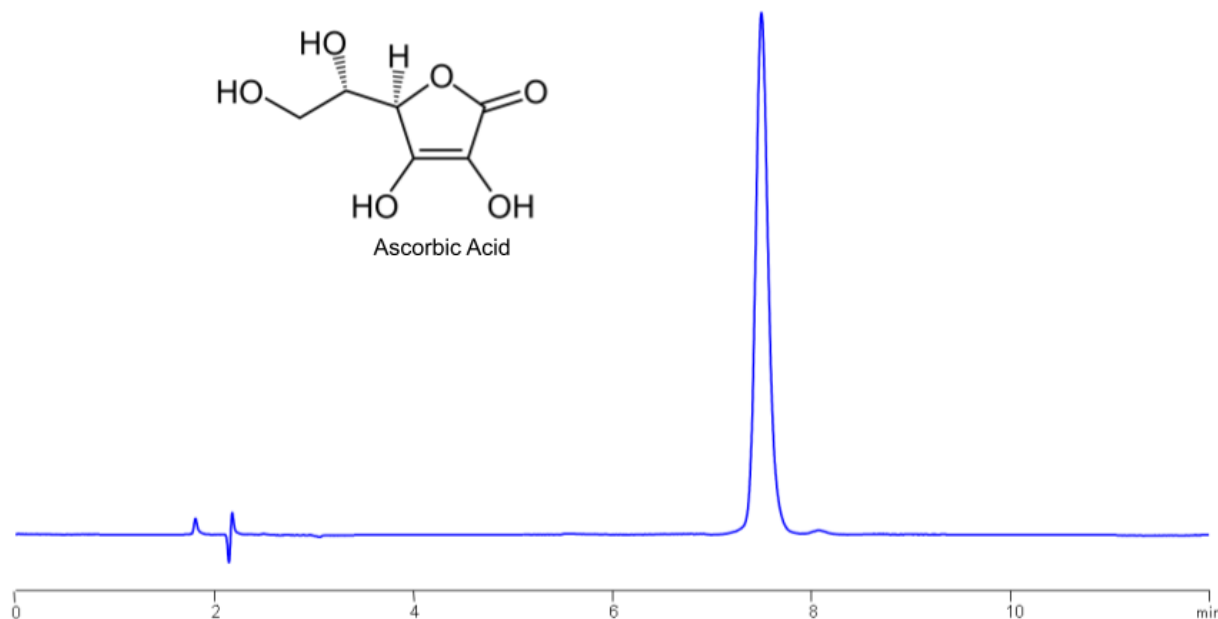
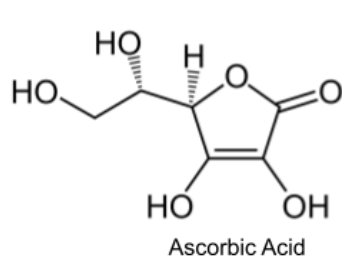


# HPLC Method for Analysis of Ascorbic Acid on Newcrom BH Column

<https://sielc.com/hplc-method-for-analysis-of-ascorbic-acid-3>

## Chromatogram

SIELC



<b>Column</b>	Newcrom BH
<b>Column Size</b>	4.6 × 150 mm, 5 µm, 100A
<b>Part Number</b>	NBH-46.150.0510
<b>Mobile Phase</b>	Acetic acid 0.1% in MeCN/H <sub>2</sub> O – 10/90%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 250 nm
<b>Injection volume</b>	5 µL
<b>Sample</b>	0.05 mg/ml in H <sub>2</sub> O
<b>LOD*</b>	25 ppb

## Description

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

Ascorbic Acid is a vitamin with the molecular formula C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>. 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.

Ascorbic Acid can be retained and analyzed using the Newcrom BH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV.

## Method Parameters

<b>Mobile Phase</b>	MeCN – 10%
<b>Buffer</b>	Acetic Acid
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV 250
<b>LOD*UV</b>	25 ppb
<b>Class of Compounds</b>	Vitamin
<b>Analyzing Compounds</b>	Ascorbic Acid

## HPLC Column Used

**Newcrom BH, 4.6 x 150 mm, 5 µm, 100 A, dual ended**

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