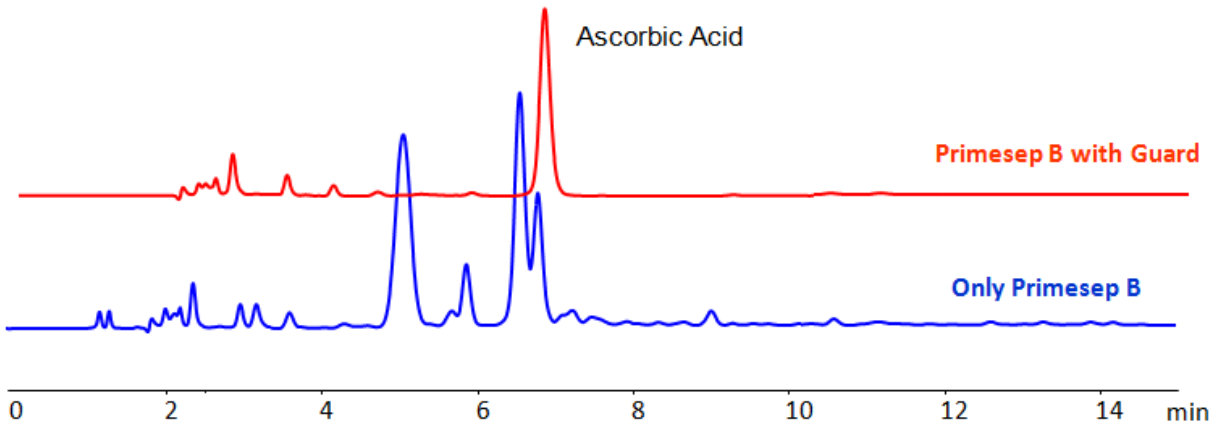
HPLC Determination of Ascorbic Acid in Strawberry Juice

https://sielc.com/hplc-determination-of-ascorbic-acid-in-strawberry-juice

Chromatogram



Column:	**Primesep B**
Column size:	4.6 x 150 mm, 5 µm
Guard Column:	**Primesep 100**
Guard Size:	4.6 x 50 mm, 5µm
Valve switching time:	0.5 min after injection
Mobile phase:	MeCN/H2O/Acetic acid

Time, min	%MeCN	%H2O	% Acetic Acid
0.00	10	90	0.2
15.00	50	50	0.5

Flow rate:	1 mL/min
UV detection:	270

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.

FlipLC™ is an alternative method to avoid the interference of most of the contaminants by the use of an isolation column and a high pressure switching valve before the separation column. This method allows sample cleaning and analyte separation in one automated process. The isolation column and the separation column should have orthogonal retention characteristics to operate efficiently in this setup. Mixed-mode columns with reverse phase and ion-exchange characteristics were used in this analysis.

Method Parameters

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C6H8O6	. 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.