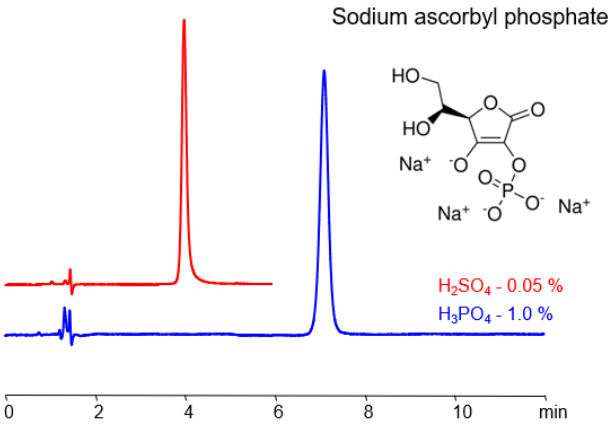
HPLC Method for Analysis of Ascorbyl Phosphate on Newcrom BH Column



Column:	Newcrom BH
Column size:	3.2 × 100 mm, 3 µm
Column part number:	NBH-32.100.0310
Mobile phase:	MeCN/H_2O – 10/90%
Buffer:	H_2SO_4 or H_3PO_4
Flow rate:	0.5 mL/min
Detection:	UV 238 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Sodium ascorbyl phosphate .

Sodium Ascorbyl Phosphate is a popular, more mild, form of Vitamin C with the chemical formula C6H6Na3O9P . It is found in a variety of dermatology products and used for its antioxidant properties.

Sodium ascorbyl phosphate can be retained and analyzed on a mixed-mode Newcrom BH column with a mobile phase consisting of water, Acetonitrile (MeCN), and either Sulfuric acid (H2SO4) or Phosphoric acid (H3PO4) as the ionic modifier. This analytical method can be UV detected at 238 nm with high resolution and peak symmetry.

Method Parameters

Column	Newcrom BH, 3.2 x 100 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 10/90%
Buffer	H2SO4or H3PO4
Flow Rate	0.5 mL/min
Detection	UV 238 nm
Limit of Detection	0.05 ppm

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