

MZ Biolabs 1635 E 18th St Tucson, AZ 85719 contact@mzbiolabs.com www.mzbiolabs.com

Certificate of Analysis Ascorbic acid (Vitamin C)

(2R)-2-[(1S)-1,2-dihydroxyethyl]-3,4-dihydroxy-2H-furan-5-one

Compound : Ascorbic acid

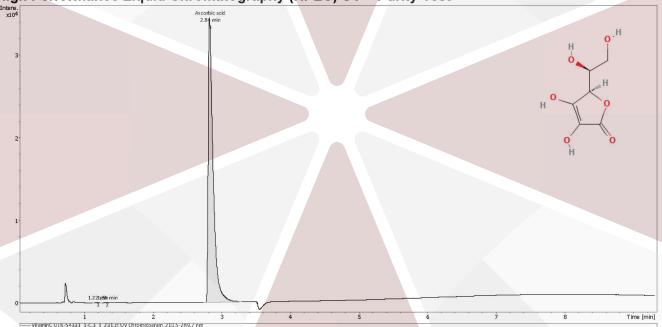
Lot number : ULN-15800 Analysis date : 2024-11-25 **Purity %** : 99.80%

Method : HPLC-UV-MS Client: **UMBRELLA.us**

> 3280 E Hemisphere Loop Tucson, Arizona 85706

PubChem CID: 54670067 https://pubchem.ncbi.nlm.nih.gov/compound/54670067

High Performance Liquid Chromatography (HPLC) UV - Purity Test



PEAK LIST		Number of detected peaks: 3		
	Time (min)	Area	%Area	
1	1.22	7.93E+01	0.05	
2	1.35	2.57E+02	0.15	
3	2.84	1.68E+05	99.80	Ascorbic acid

Analysis Performed by Ken Pendarvis, ChE Analytical Chemist MZ Biolabs contact@mzbiolabs.com

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers. These are not normally detected using UV and are not considered impurities.

2024-11-26



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Mass Spectrometry (MS) - Identity Test

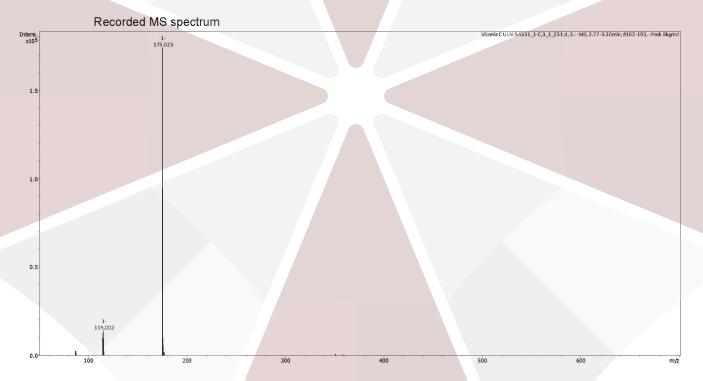
Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass: 176.03 Da Measured monoisotopic mass: 176.02 Da

Molecular weight confirmed

Note: Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.



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