

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-07-03 10:20:06
Date of Next Testing:	2026-07-02 10:20:06
Product Name:	<b>(+)-Sodium L-ascorbate</b>
CAS Number:	134-03-2
Specifications & Purity:	BioReagent Plus, ≥99.0% (NT)
Lot #:	F23171048
SKU #	<b>S431925</b>
<b>Analysis:</b>	<b>238762</b>
Storage Temperature:	Protected from light

Parameter	Limit Values	Result
Assay(Titration by HClO <sub>4</sub> 0.1M)	99-102.5 (%)	99.80000 %
Specific Rotation [α] <sub>20</sub> /D(c=5 in H <sub>2</sub> O)	103.0-107 (°)	105.00 °
Loss on drying	0-0.2 (%)	0.04 %
Calcium(Ca)	0-50 (ppm)	48.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.50 ppm
Cobalt(Co)	0-5 (ppm)	4.00 ppm
Chromium(Cr)	0-5 (ppm)	3.80 ppm
Copper(Cu)	0-5 (ppm)	5.00 ppm
Iron(Fe)	0-5 (ppm)	2.00 ppm
Potassium(K)	0-50 (ppm)	47.00 ppm
Magnesium(Mg)	0-5 (ppm)	5.00 ppm
Manganese(Mn)	0-5 (ppm)	4.00 ppm
Nickel(Ni)	0-5 (ppm)	1.00 ppm
Lead(Pb)	0-5 (ppm)	0.50 ppm
Zinc(Zn)	0-5 (ppm)	3.00 ppm
Total sulfur as SO <sub>4</sub> (ICP)	0-50 (ppm)	37.00 ppm
Chloride (Cl <sup>-</sup> )	0-50 (ppm)	41.00 ppm
Purity(TLC)	99-100 (%)	99.80 %
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance(S431925)	White or light Yellow Powder Or Crystals	White or light Yellow Powder Or Crystals



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager