

Certificate of Analysis

Date of Testing: 2024-11-12 18:40:54

Date of Next Testing: 2027-11-12 18:40:54

Product Name: **(+)-Sodium L-ascorbate**

CAS Number: 134-03-2

Specifications & Purity: UltraBio™, Ultra pure, BioReagent, ≥99%(NT)

Lot #: K2407245

SKU #: **S431925**

Version: **1**

Analysis #: **238762**

Storage Temperature: Protected from light

Parameter	Limit Values	Result
Assay(Titration by HClO ₄ 0.1M)	99-102.5 (%)	99.80000 %
Specific Rotation [α] ₂₀ /D(c=5 in H ₂ 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 ₄ (ICP)	0-50 (ppm)	37.00 ppm
Chloride (Cl ⁻)	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



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager