

ALADDIN SCIENTIFIC CORPORATION
 14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-18 18:36:55
 Date of Next Testing: 2029-09-17 18:36:55
 Product Name: **L-(+)-Tartaric acid**
 CAS Number: 87-69-4
 Specifications & Purity: pharmaceutical grade, PharmPure™
 Lot #: I2515484
 SKU #: **T112462**
 Version: **1**
 Analysis #: **560171**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Chloride (Cl-)	0-100 (ppm)	1.02500 ppm
Mercury(Hg)	0-1 (ppm)	0.02050 ppm
(Pb)Lead	0-2 (ppm)	0.02410 ppm
Copper(Cu)	0-10 (ppm)	0.52450 ppm
Specific Rotation [α] ₂₅ /D(c=20 in H ₂ O)	12-13 (°)	12.03200 °
Heavy metal (as Pb)	0-0.001 (%)	0.00000 %
Ignition Residue (as sulfate)	0-0.05 (%)	0.01250 %
(As)Arsenic	0-2 (ppm)	0.02410 ppm
Zinc(Zn)	0-10 (ppm)	0.40500 ppm
Loss on drying	0-0.2 (%)	0.10400 %
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	0.41500 ppm
Calcium(Ca)	0-200 (ppm)	1.02500 ppm
oxalate (as oxalic acid)	0-100 (ppm)	0.42500 ppm
Purity (dry basis)	99.7-100.5 (%)	99.90000 %
Appearance (T112462)	white powder	White powder
oxalate (C ₂ O ₄ ²⁻)	pass	Pass
Residual solvents	complies	complies
volatile organic substances	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



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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