

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2021-12-15 16:16:43
Date of Next Testing:	2025-12-14 16:16:43
Product Name:	L-(+)-Tartaric acid
CAS Number:	87-69-4
Specifications & Purity:	≥99%
Lot #:	L2111359
SKU #	T112459
Version	0
Analysis #:	058508
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.21 %
Purity(Neutralization titration)	98.5-101.5 (%)	100.59 %
Sulfate(SO42-)	0-150 (ppm)	70.50 ppm
Chloride (Cl-)	0-100 (ppm)	83.60 ppm
Heavy metal (as Pb)	0-10 (ppm)	4.90 ppm
Calcium(Ca)	0-200 (ppm)	141.50 ppm
Specific Rotation [α] ₂₀ /D(c=20 in H ₂ O)	12-13 (°)	12.01 °
Sulfate Ash	0-0.1 (%)	0.01 %
Melting point	168-172 (°C)	170.05000 °C
Appearance (T112459)	White to Off-White Powder, Crystals or Granules	White to Off-White Powder, Crystals or Granules
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency



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

John Su
QA & QC Manager