

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-08 13:21:15

Date of Next Testing: 2027-05-08 13:21:15

Product Name: **L(+)-Tartaric acid**

CAS Number: 87-69-4

Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure

Lot #: D2422136

SKU #: **L434307**

Version: **2**

Analysis #: **337275**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ (c=20 in H ₂ O)	12-13 (°)	12.14300 °
Chloride (Cl ⁻)	0-5 (ppm)	0.00000 ppm
Phosphate (PO ₄)	0-10 (ppm)	0.00000 ppm
Calcium (Ca)	0-20 (ppm)	0.00000 ppm
Iron (Fe)	0-5 (ppm)	0.00000 ppm
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
Insoluble matter	0-50 (ppm)	0.00000 ppm
Copper (Cu)	0-5 (ppm)	0.00000 ppm
Lead (Pb)	0-5 (ppm)	0.00000 ppm
Sulphated ash	0-100 (ppm)	0.00000 ppm
Loss on drying (105°C)	0-0.2 (%)	0.01700 %
Assay (alkalimetric, calculated on dried substance)	99.5-101 (%)	99.67000 %
Sulfate (SO ₄ ²⁻)	0-50 (ppm)	0.00000 ppm
Total Sulfur as SO ₄ (SO ₄)	0-20 (ppm)	0.00000 ppm
Oxalic acid	0-350 (ppm)	0.00000 ppm
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
Appearance of solution (transparent)	pass	Pass



QualityAssurance@aladdinsci.com

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

John Su
QA & QC Manager