

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|------------------------------------|
| Date of Testing: | 2025-12-26 11:21:25 |
| Date of Next Testing: | 2027-12-26 11:21:25 |
| Product Name: | DL-Tartaric acid |
| CAS Number: | 133-37-9 |
| Specifications & Purity: | AR |
| Lot #: | L2512562 |
| SKU # | T104048 |
| Version | 1 |
| Analysis #: | 614233 |
| Storage Temperature: | Room temperature, Desiccated, Cool |

| Parameter | Limit Values | Result |
|---|--|--|
| Purity (Titration by NaOH) (anhydrous) | 98.5-101.5 (%) | 100.21 % |
| Water by Karl Fischer | 0-5 (%) | 0.17 % |
| specific rotation $[\alpha]_{20/D}(C=1$ in water) | -2-2 (°) | 0.06500° |
| Appearance (T104048) | White to Off-White Granular or Crystalline Powder | White to Off-White Granular or Crystalline Powder |
| Solubility in H ₂ O , Colorless, Clear, 200 mg/ml | pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager