

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-08 15:27:15

Date of Next Testing: 2028-04-07 15:27:15

Product Name: **D-(-)-Tartaric acid**

CAS Number: 147-71-7

Specifications & Purity:  $\geq 99.5\%$

Lot #: G2002080

SKU #: **T107139**

Version: **0**

Analysis #: **341194**

Storage Temperature: Room temperature

| Parameter                                                                    | Limit Values                                   | Result                                         |
|------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Specific Rotation $[\alpha]_{20/D}(c=20 \text{ in H}_2\text{O})$             | -13--11 ( $^{\circ}$ )                         | -11.80400 $^{\circ}$                           |
| Enantiometric Excess                                                         | 99.5-100 (%)                                   | 99.50000 %                                     |
| Purity(Neutralization titration)                                             | 99-101 (%)                                     | 100.27000 %                                    |
| Appearance (t107139)                                                         | White Powder or Crystals or Granules or Chunks | White Powder or Crystals or Granules or Chunks |
| Infrared spectrum                                                            | Conforms to Structure                          | Conforms to Structure                          |
| Solubility in H <sub>2</sub> O , Colorless,Clear,100 mg/mL, H <sub>2</sub> O | pass                                           | Pass                                           |



John Su  
QA & QC Manager