

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2021-03-06 15:19:17

Date of Next Testing: 2025-03-05 15:19:17

Product Name: **DL-Alanine**

CAS Number: 302-72-7

Specifications & Purity:  $\geq 99\%$

Lot #: B2103112

SKU #: **A100051**

Version: **1**

Analysis #: **001142**

Storage Temperature: Room temperature, Desiccated

| Parameter                                               | Limit Values             | Result                   |
|---------------------------------------------------------|--------------------------|--------------------------|
| Transmission(c=10, H <sub>2</sub> O, 430 nm, 1 cm cell) | 95-100 (%)               | 97.84000 %               |
| Purity(Nonaqueous Titration)                            | 98.5-101.5 (%)           | 99.13000 %               |
| Sulfate Ash                                             | 0-0.1 (%)                | 0.06700 %                |
| Heavy metal (as Pb)                                     | 0-10 (ppm)               | 2.61400 ppm              |
| Loss on drying(105°C, 3h)                               | 0-0.2 (%)                | 0.04100 %                |
| PH(2.5%, 25°C)                                          | 5.5-7                    | 6.20000                  |
| Appearance (A100051)                                    | White Powder or Crystals | White Powder or Crystals |
| Proton NMR spectrum                                     | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager