

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-15 13:59:36

Date of Next Testing: 2029-07-14 13:59:36

Product Name: **Ala-Ala**

CAS Number: 1948-31-8

Specifications & Purity:  $\geq 98\%$

Lot #: I2117351

SKU #: **A113991**

Version **0**

**Analysis #:** **539982**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                           | Limit Values          | Result                |
|---------------------------------------------------------------------|-----------------------|-----------------------|
| Specific Rotation [a] <sub>D</sub> <sup>20</sup> (c=2 in 0.5 M HCL) | -38.9--36.1 (°)       | -36.10700 °           |
| Purity(HPLC)                                                        | 98-100 (%)            | 98.20800 %            |
| Appearance (A113991)                                                | white powder          | White powder          |
| Proton NMR spectrum                                                 | Conforms to Structure | Conforms to Structure |

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

John Su  
QA & QC Manager