

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-05-26 10:46:07

Date of Next Testing: 2030-05-25 10:46:07

Product Name: **Ala-Gln**

CAS Number: 39537-23-0

Specifications & Purity:  $\geq 98\%$

Lot #: H2212075

SKU #: **A107409**

Version: **0**

Analysis #: **709373**

Storage Temperature: Room temperature

| Parameter                                                              | Limit Values              | Result                    |
|------------------------------------------------------------------------|---------------------------|---------------------------|
| Specific Rotation $[\alpha]_{20/D(c=5 \text{ in } H_2O)}$              | 8-12 ( $^{\circ}$ )       | 9.82000 $^{\circ}$        |
| Carbon by Elemental Analysis                                           | 43.2-45.2 (%)             | 44.00000 %                |
| Nitrogen by Elemental Analysis                                         | 18.8-19.8 (%)             | 19.10000 %                |
| Purity(HPLC)                                                           | 98-100 (%)                | 98.16000 %                |
| Melting point                                                          | 213-223 ( $^{\circ}C$ )   | 216.90000 $^{\circ}C$     |
| Appearance (A107409)                                                   | White to Off-White Powder | White to Off-White Powder |
| Proton NMR spectrum                                                    | Conforms to Structure     | Conforms to Structure     |
| Solubility in $H_2O$ , colorless to faint yellow clear to hazy,50mg/ml | pass                      | Pass                      |



John Su  
QA & QC Manager