

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-27 09:39:20

Date of Next Testing: 2026-09-26 09:39:20

Product Name: **Ala-Gln**

CAS Number: 39537-23-0

Specifications & Purity:  $\geq 98\%$

Lot #: I2217040

SKU #: **A107409**

Version: **0**

Analysis #: **107805**

Storage Temperature: Room temperature

| Parameter                                                                         | Limit Values                   | Result                       |
|-----------------------------------------------------------------------------------|--------------------------------|------------------------------|
| Specific Rotation $[\alpha]_{20/D(c=5 \text{ in H}_2\text{O})}$                   | 8-12 ( $^{\circ}$ )            | 10.10900 $^{\circ}$          |
| Carbon by Elemental Analysis                                                      | 43.2-45.2 (%)                  | 43.23000 %                   |
| Purity(HPLC)                                                                      | 98-100 (%)                     | 99.84700 %                   |
| Nitrogen by Elemental Analysis                                                    | 18.8-19.8 (%)                  | 18.81000 %                   |
| Melting point                                                                     | 213-217 ( $^{\circ}\text{C}$ ) | 216.99000 $^{\circ}\text{C}$ |
| Appearance (A107409)                                                              | White to Off-White Powder      | White to Off-White Powder    |
| Proton NMR spectrum                                                               | Conforms to Structure          | Conforms to Structure        |
| Solubility in H <sub>2</sub> O , colorless to faint yellow clear to hazy, 50mg/ml | pass                           | Pass                         |



John Su  
QA & QC Manager