

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-08 10:33:34

Date of Next Testing: 2027-03-07 10:33:34

Product Name: **Ala-Gln**

CAS Number: 39537-23-0

Specifications & Purity: $\geq 98\%$

Lot #: B2324366

SKU #: **A107409**

Version: **0**

Analysis #: **022787**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in H}_2\text{O})}$	8-12 ($^\circ$)	10.22 $^\circ$
Carbon by Elemental Analysis	43.2-45.2 (%)	43.97%
Nitrogen by Elemental Analysis	18.8-19.8 (%)	19.03%
Purity(HPLC)	98-100 (%)	98.34990%
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 ₂ O , colorless to faint yellow clear to hazy,50mg/ml	pass	Pass



John Su
QA & QC Manager