

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-09 14:05:54

Date of Next Testing: 2026-07-08 14:05:54

Product Name: **Ala-Gln**

CAS Number: 39537-23-0

Specifications & Purity: $\geq 98\%$

Lot #: H1830024

SKU #: **A107409**

Version: **0**

Analysis #: **110816**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in } H_2O)}$	8-12 ($^{\circ}$)	9.80000 $^{\circ}$
Carbon by Elemental Analysis	43.2-45.2 (%)	44.50000 %
Nitrogen by Elemental Analysis	18.8-19.8 (%)	19.30000 %
Purity(HPLC)	98-100 (%)	98.33200 %
Melting point	213-217 ($^{\circ}C$)	215.30000 $^{\circ}C$
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