

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-02-09 17:07:56

Date of Next Testing: 2026-02-08 17:07:56

Product Name: **Ala-Gln**

CAS Number: 39537-23-0

Specifications & Purity: $\geq 98\%$

Lot #: B2207133

SKU #: **A107409**

Version: **0**

Analysis #: **056987**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in } H_2O)}$	8-12 ($^{\circ}$)	10.24000 $^{\circ}$
Carbon by Elemental Analysis	43.2-45.2 (%)	44.65000 %
Nitrogen by Elemental Analysis	18.8-19.8 (%)	19.56000 %
Purity(HPLC)	98-100 (%)	98.16400 %
Melting point	213-217 ($^{\circ}C$)	216.98000 $^{\circ}C$
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