

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-11-09 09:02:48
Date of Next Testing:	2028-11-08 09:02:48
Product Name:	L-Glutamine
CAS Number:	56-85-9
Specifications & Purity:	Moligand™, ≥99%
Lot #:	K2406192
SKU #	G105425
Version	0
Analysis #:	356206
Storage Temperature:	Protected from light, Room temperature

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	6.3-7.3 (°)	6.63°
Carbon by Elemental Analysis	40.3-41.9 (%)	40.88%
Nitrogen by Elemental Analysis	18.8-19.6 (%)	19.11%
Purity(HPLC)	99-100 (%)	99.75200%
Ammonia (NH ₃)	0-0.2 (%)	0.20%
Appearance (G105425)	White to Off-White Powder	White to Off-White Powder
Solubility in 1 M HCl , Colorless, Clear to Slightly Hazy, 50 mg/ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager