

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-11-21 17:53:56
Date of Next Testing:	2028-11-20 17:53:56
Product Name:	<b>L-Glutamine</b>
CAS Number:	56-85-9
Specifications & Purity:	Moligand™, ≥99%
Lot #:	K2415357
SKU #	<b>G105425</b>
Version	<b>0</b>
Analysis #:	<b>425483</b>
Storage Temperature:	Protected from light, Room temperature

Parameter	Limit Values	Result
Carbon by Elemental Analysis	40.3-41.9 (%)	40.95 %
Nitrogen by Elemental Analysis	18.8-19.6 (%)	19.18 %
Purity(HPLC)	99-100 (%)	99.79100 %
Specific Rotation [α] <sub>20</sub> /D(c=4 in H <sub>2</sub> O)	6.3-7.3 (°)	6.32°
Ammonia (NH <sub>3</sub> )	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