

Certificate of Analysis

Date of Testing: 2022-02-24 13:15:15
Date of Next Testing: 2026-02-23 13:15:15
Product Name: **L-Glutamine**
CAS Number: 56-85-9
Specifications & Purity: 99%
Lot #: B2222448
SKU #: **G105425**
Analysis: **067371**
Storage Temperature: Protected from light, Room temperature

| Parameter | Limit Values | Result |
|---|---------------------------|---------------------------|
| Specific Rotation $[\alpha]_{20/D(c=4 \text{ in H}_2\text{O})}$ | 6.3-7.3 (°) | 6.32° |
| Ammonia (NH ₃) | 0-0.2 (%) | 0.00% |
| Carbon by Elemental Analysis | 40.3-41.9 (%) | 41.44% |
| Nitrogen by Elemental Analysis | 18.8-19.6 (%) | 19.19% |
| Purity(HPLC) | 99-100 (%) | 99.75500% |
| Appearance (G105425) | White to Off-White Powder | White to Off-White Powder |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in 1 M HCl , Colorless, Clear to Slightly Hazy, 50 mg/ml | pass | Pass |



John Su
QA & QC Manager