

Certificate of Analysis

Date of Testing: 2024-05-30 16:19:51
Date of Next Testing: 2028-05-29 16:19:51
Product Name: **L-Glutamine**
CAS Number: 56-85-9
Specifications & Purity: 99%
Lot #: E2422234
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