

Certificate of Analysis

Date of Testing: 2022-10-10 10:52:56
Date of Next Testing: 2026-10-09 10:52:56
Product Name: **L-Glutamine**
CAS Number: 56-85-9
Specifications & Purity: 99%
Lot #: I2221413
SKU #: **G105425**
Analysis: **118497**
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 (°)	6.37°
Ammonia (NH ₃)	0-0.2 (%)	0.00 %
Carbon by Elemental Analysis	40.3-41.9 (%)	40.31 %
Nitrogen by Elemental Analysis	18.8-19.6 (%)	18.82 %
Purity(HPLC)	99-100 (%)	99.96400 %
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