BI BUFFER SOLUTIONS

100 Majestic Way, Bangor, PA 18013 / www.biospectra.us

Effective Date:	20-Jan-2025	20-Jan-2028	: Date of Next Review
Prepared By:	Amy Yencho	Not Applicable	: Supersedes
QA/QC Approval:	Krista Rehrig	Carissa Albert	: Management Approval
Reason for Revision:	See Revision History in MasterControl		

CERTIFICATE OF ANALYSIS L-GLUTAMINE BIOTECH, MEETS USP, GMP BIO QUALIFIED GRADE / LGLM-6201 LOT#: LGLM-L02-0225-0001

C₅H₁₀N₂O₃ → F.W. 146.14 g/mol. → CAS# 56-85-9

Retest Date: 10/05/25 Manufacturing Date: 10/06/23 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATIONS	RESULT
Appearance and Color	White Crystals or Crystalline Powder	White Powder
Assay, Dried Basis	98.5 - 101.5 %	100.1 %
Chloride	\leq 500 ppm	<500 ppm
Identification A, IR	Conforms to Reference Standard	Conforms to Reference Standard
Iron	$\leq 10 \text{ ppm}$	<1.5 ppm
Loss on Drying	$\leq 0.3\%$	<0.3 %
Optical Rotation, Specific Rotation 20°C	+6.3° to +7.3°	+6.7 °
Residue on Ignition	$\leq 0.1\%$	<0.1 %
Related Compounds	$\leq 0.5\%$	<0.5 %
Sulfate	\leq 300 ppm	<300 ppm

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COUNTRY OF ORIGIN: India

TEST METHOD REFERENCE: DCN: BSI-ATM-0067

<u>INTENDED USE:</u> Material represented by this Certificate of Analysis is suitable for use as a process chemical. It is GMP manufactured by BioSpectra's approved supplier in accordance with the approved supplier's ISO 9001:2015 certified management system. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

<u>RETEST DATE:</u> The retest date is obtained from the approved supplier's certificate of analysis.

Prepared by: Can Alut	Date: 2525	Job Title: Senior Quality Manager
Reviewed by: Jonen Bunch	Date: <u>2/5/25</u>	Job Title: QA Supervisor

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