

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

Effective Date:	10-Mar-2025	10-Mar-2028	: Date of Next Review
Prepared By:	Taylor Yurick	BSI-COA-0017 v.4.2	: Supersedes
QA/QC Approval:	Jaron Hughes	Carissa Albert	: Management Approval
Reason for Revision:	See Revision History in MasterControl		

## **CERTIFICATE OF ANALYSIS**

## GUANIDINE HYDROCHLORIDE BIO EXCIPIENT GRADE / GHCL-3220

LOT#: GHCL-S05-0425-0035

NH<sub>2</sub>C(NH)NH<sub>2</sub>·HCl <sup>\*</sup> F.W. 95.53 g /mol. <sup>\*</sup> CAS# 50-01-1 Manufacturing Date: 2/10/25 Retest Date: 2/28/27 Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360 Packaging Site: 100 Majestic Way, Bangor PA, 18013

RESULT ANALYSIS **SPECIFICATIONS** Acidity < 0.01% < 0.01% Appearance and Color White / Crystals White / Crystals 99.5 - 101.0%99.8% Assay (Dried Basis) Chloride and Sulfate, Sulfate < 0.005% < 0.005% **DNase** None Detected None Detected None Detected None Detected Enzymes Protease **RNase** None Detected None Detected Passes Test Passes Test Identification A, (IR) 230nm  $\leq$  0.2000 a.u 0.0944 a.u. Identification B, 260nm  $\leq$  0.0300 a.u. 0.0075 a.u. Absorbance 0.0027 a.u. 275nm ≤0.0300 a.u. Identification C. Chloride Meets the Requirements of Test A Meets the Requirements of Test A < 0.005% Limit of Nitrate  $\leq 0.005\%$ Loss on Drying < 0.5% 0.1% Melting Range 184 - 188°C 185 - 187°C 4.5 - 6.05.1 pH (6M) < 0.05% Residue on Ignition  $\leq 0.05\%$ Solubility (6M) Passes Test Passes Test Arsenic (As)  $\leq$  5 ppm < 0.45 ppmCopper (Cu)  $\leq$  5 ppm < 0.15 ppmTrace Metals Iron (Fe)  $\leq$  5 ppm < 0.30 ppm < 0.30 ppmLead (Pb)  $\leq$  5 ppm Water by Karl Fischer ≤0.3% w/w 0.1% w/w< 0.05% Water Insoluble  $\leq 0.05\%$ 

## COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0013

<u>INTENDED USE:</u> Material represented by this Certificate of Analysis is suitable for use as an excipient. It is manufactured in accordance with the ICH Q7 Good Manufacturing Practice Guide. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug Product or Household Item.

<u>RESIDUAL SOLVENTS STATEMENT:</u> Based on the manufacturing process and the controlled handling, storage and analysis of this product, this product complies with the requirements and specifications listed in the current USP method <467> Tables 1, 2, 3, or 4.

Prepared by: When the last of	Date:	418/25	Job Title:	QA Tech 1	
{ /					
Reviewed by:	Date:	4/8/25	Job Title:	QATechill	