

BIOSPECTRA

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

Effective Date:	07-Feb-2025	07-Feb-2028	: Date of Next Review
Prepared By:	Taylor Yurick	BSI-COA-0148 v.2.2	: Supersedes
QA/QC Approval:	Jaron Hughes	Carissa Albert	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

CERTIFICATE OF ANALYSIS

GUANIDINE HYDROCHLORIDE 6 MOLAR SOLUTION

BIO EXCIPIENT GRADE / GHCL-3101

LOT: GHCL-L09-1224-0087

$\text{NH}_2\text{C}(\text{NH})\text{NH}_2\text{HCl}$ ▲ F.W. 95.53 g/mol. ▲ CAS# 50-01-1
 Manufacturing Date: 12/17/24 Expiration Date: 12/31/27
 Manufacturing Site: 100 Majestic Way, Bangor PA, 18013
 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS	SPECIFICATION	TEST RESULT
Absorbance 260nm	0.1 a.u. max.	<0.1 a.u.
Appearance and Color	Clear, Colorless Liquid	Clear, Colorless Liquid
Cyanide	Passes Test	Passes Test
Heavy Metals	≤ 10 ppm	<10 ppm
Identification (IR)	Passes Test	Passes Test
Iron	≤ 3 ppm	<0.30 ppm
Molarity	5.8 – 6.2M	5.9M
pH	4.5 - 6.5	6.0 @ 23.1 °C

COUNTRY OF ORIGIN: U.S.A.TEST METHOD REFERENCE: DCN: BSI-ATM-0001

INTENDED USE: 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.

OVI STATEMENT: 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: Julie On Date: 7/19/26 Job Title: Senior QS Manager
 Reviewed by: Amil McCall Date: 7/13/26 Job Title: QA Tech III