DCN: 16-001146 v.4.0



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

Effective Date: 5-Mar-2021	5-M	[ar-2024]: Date of Next Review	
Prepared By: Shana Geffken	16-0011	46 v.3.0 : Supersedes	
QA/QC Approval: Jess DeMaio	Hannah	Bernier : Management Approval	
Reason for Revision: See Revision History in ensur.			

CERTIFICATE OF ANALYSIS

GUANIDINE HYDROCHLORIDE

BIO EXCIPIENT GRADE / NEW CODE GHCL-3220-25

(HISTORICAL CODE GH3220 – K025)

LOT#: GHCL-0221-00102

Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Packaging Date: 10/20/21 Packaging Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Analysi	S	SPECIFICATIONS	RESULT
Absorbance (6M)	230 nm	0.2000 a.u. max.	0.1657 a.u.
	260 nm	0.0300 a.u. max.	0.0131 a.u.
	275 nm	0.0300 a.u. max.	0.0059 a.u.
Appearance and Color		White / Crystals	White / Crystals
Assay		99.5% min.	100.0%
	DNase	None Detected	None Detected
Enzymes	Protease	None Detected	None Detected
	RNase	None Detected	None Detected
Identification (IR)		Passes Test	Passes Test
Insoluble Matter		0.15% max.	<0.15%
Loss on Drying		0.5% max.	0.3%
Melting Range		184-188°C	185 - 187°C
Nitrate		0.01% max.	<0.01%
pH (6M)		4.5-6.0	5.1 @ 23.6°C
Residue on Ignition		0.05% max.	<0.05%
Solubility (6M)		Passes Test	Passes Test
Sulfate		0.01% max.	<0.01%
Trace Metals	Arsenic (As)	5 ppm max.	< 5 ppm
	Copper (Cu)	5 ppm max.	< 5 ppm
	Iron (Fe)	5 ppm max.	< 5 ppm
	Lead (Pb)	5 ppm max.	< 5 ppm

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: 16-000493

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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.

Date: 11/4/21 Job Title: OA Technician

Date: 1114/21 Job Title: QA Supervisor