DCN: 16-001146 v.3.0



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

Effective Date: 10-Apr-2020	10-Apr-2023 : Date of Next Review
Prepared By: Kyle Snyder	16-001146 v.2.0 : Supersedes
QA/QC Approval: Carissa McCollian	Hannah Bernier : Management Approval
Reason for Revision: See Revision History in ensur.	

CERTIFICATE OF ANALYSIS

GUANIDINE HYDROCHLORIDE BIO EXCIPIENT GRADE / GH3220 – K001

LOT#: GH3220-020-0720

NH₂C(NH)NH₂·HCl ^ F.W. 95.53 g mol. ^ CAS= 50-01-1 Manufacturing Date: 6/8/20 Retest Date: 6/30/22 Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360 Packaging Date: 7/14/20 Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYS	IS	SPECIFICATIONS	RESULT
Absorbance (6M)	230 nm	0.2000 a.u. max.	0.1201 a.u.
	260 nm	0.0300 a.u. max.	0.0092 a.u.
	275 nm	0.0300 a.u. max.	0.0033 a.u.
Appearance and Color		White / Crystals	White / Crystals
Assay		99.5% min.	100.3%
	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.	0.1%
Melting Range		184-188°C	186 - 187°C
Nitrate		0.01% max.	<0.01%
pH (6M)		4.5-6.0	5.0 @ 25.0°C
Residue on Ignition		0.05% max.	<0.01%
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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<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>OVI 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: O Date: 7/15/20 Job Title: QA Supervisor

Reviewed by: ANYMUL Date: 7/15/20 Job Title: OCCOMPHANCE Super VISET