BIOSPECTRA

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

Effective Date:	30-Nov-2017	30-Nov-2020	: Date of Next Review
Prepared By:	Jamie Storm	16-001181 v.4.0	: Supersedes
QA/QC Approval:	Crystal Hamelburg	Dora Meissner	: Management Approval
Reason for Revision:	See Revision History in ensur		

UREA

CERTIFICATE OF ANALYSIS

BIO PHARMA GRADE / UR4220-K025

LOT: UR4220-029-0318

NH_2CONH_2 ⅄ F.W. 60.06 g/mol. ⅄ CAS# 57-13-6

Manufacture Date: 07/14/2017 Retest Date: 07/31/2019

Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360 Packaging Date: 03/12/2018

Packaging Site: 100 Majestic Way, Bangor PA, 18013

ANALYSIS		SPECIFICATION	TEST RESULT
Alcohol Insoluble Matter		0.04% maximum	<0.0060%
Appearance and Color		White / Crystals	White / Crystals
Assay		98.0-102.0%	98.42%
Chloride		0.0005% maximum	<0.0001%
Enzymes	DNase	None Detected	None Detected
	Protease	None Detected	None Detected
	RNase	None Detected	None Detected
Heavy Metals		10 ppm maximum	< 10 ppm
Identification A		Passes Test	Passes Test
Identification B		Passes Test	Passes Test
Identification (IR)		Passes Test	Passes Test
Insoluble Matter		0.010% maximum	<0.0015%
Loss on Drying		1.0% maximum	0.2649%
Melting Range		132-135 °C	133.7 – 135.0 °C
Residue on Ignition		0.010% maximum	<0.0075%
Sulfate		0.001% maximum	<0.001%
Trace Metals	Arsenic (As)	5 ppm maximum	< 5 ppm
	Copper (Cu)	5 ppm maximum	< 5 ppm
	Iron (Fe)	5 ppm maximum	< 5 ppm
	Lead (Pb)	5 ppm maximum	< 5 ppm

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: 16-000495

INTENDED USE: Material represented by this Certificate of Analysis is suitable to be used only as the following: IPEC Compliant GMP Manufactured Chemical, for use in further Manufacturing or as a Reagent for Laboratory and Research. 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.

RESIDUAL SOLVENT STATEMENT: Based on the manufacturing process and the controlled handling and storage of this product, there is no potential for any of the residual solvents listed in the current USP method <467> Tables 1, 2, 3 or 4 to be present at the specified limits; furthermore, if tested this product would comply with USP/NF requirements.

Prepared by: H. Bernier Date: 3/14/18

Reviewed by: Christine Date: 3/14/18