DCN: 16-001182 v.5.1

BIOSPECTRA

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

Effective Date:	23-Aug-2019	23-Aug-2022	: Date of Next Review
Prepared By:	Jessica DeMaio	16-001182 v.5.0	: Supersedes
QA/QC Approval:	Jenna Miller	Dora Meissner	: Management Approval
Reason for Revision:	See Revision History in ensur		

CERTIFICATE OF ANALYSIS

UREA

BIO EXCIPIENT GRADE / UR3220-K025

LOT: UR3220-006-0717

Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360 Packaging Date: 7/28/2017

Packaging Site: 100 Majestic Way, Bangor PA, 18013

Meets or Exceeds USP Specifications

ANALYSIS Alcohol Insoluble Matter Appearance and Color		SPECIFICATION	TEST RESULT <0.0060% White / Crystals	
		0.04% max.		
		White / Crystals		
Assay		98.0-102.0%	98.42%	
	DNase	None Detected	None Detected	
Enzymes	Protease	None Detected	None Detected	
	RNase	None Detected	None Detected	
Heavy Metals		10 ppm max.	< 10 ppm	
Identification A(IR)		Passes Test	Passes Test	
Identification B		Passes Test	Passes Test	
	Urea RCA	< 0.1%	<0.1%	
Impurities	Total	< 2.0%	<2.0%	
	Unspecified	< 0.1%	<0.1%	
Insoluble Matter		0.010% max.	<0.0015%	
Loss on Drying		1.0% max.	0.2649%	
Melting Range		132-135 °C	133.7 − 135.0 °C	
Residue on Ignition		0.010% max.	<0.0075%	
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: 16-000495

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<u>INTENDED USE:</u> Material represented by this Certificate of Analysis is suitable to be used only as the following: ICH Q7 Compliant cGMP Manufactured Excipient for use in further manufacturing. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug Product or Household item.

RESIDUAL SOLVENTS 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:	Con	Date:	8/26/19	,	
Reviewed by: _	H. Benn	Date:	8126119		