

# BIOSPECTRA

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

Effective Date:	04-Feb-2025	04-Feb-2028	: Date of Next Review
Prepared By:	Taylor Yurick	BSI-COA-0149 v.3.1	: Supersedes
QA/QC Approval:	Jessica DeMaio	Hannah Kuchmas	: Management Approval
Reason for Revision:	See Revision History in MasterControl.		

## CERTIFICATE OF ANALYSIS

### UREA

### BIO EXCIPIENT GRADE / UREA-3250

LOT: UREA-S04-0924-0028

$\text{NH}_2\text{CONH}_2$  \* F.W. 60.06 g/mol. \* CAS# 57-13-6

Manufacturing Date: 09/26/24      Retest Date: 09/30/26

Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Site: 100 Majestic Way, Bangor PA, 18013

Meets or Exceeds USP / EP / BP Specifications

#### USP REQUIREMENTS

ANALYSIS	SPECIFICATION	TEST RESULT
Alcohol Insoluble Matter	0.04% maximum	< 0.01%
Appearance and Color	White / Crystals	White / Crystals
Assay	98.0-102.0%	100.1%
Endotoxin	2.5 EU/g maximum	< 1.3 EU/g
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Heavy Metals	10 ppm maximum	< 10 ppm
Identification A(IR)	Passes Test	Passes Test
Identification B	Passes Test	Passes Test
Impurities	Organic	≤ 0.1%
	Total	≤ 2.0%
	Unspecified	≤ 0.1%
Insoluble Matter	0.010% maximum	0.001%
Loss on Drying	1.0% maximum	0.2%
Melting Range	132-135°C	133 - 135°C
Residue on Ignition	0.010% maximum	< 0.003%
Trace Metals	Arsenic (As)	5 ppm maximum
	Copper (Cu)	5 ppm maximum
	Iron (Fe)	5 ppm maximum
	Lead (Pb)	5 ppm maximum

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## EP REQUIREMENTS

ANALYSIS	SPECIFICATION	TEST RESULT
Assay	98.5 – 101.5%	100.1%
Appearance of Solution	Clear and Colorless	Clear and Colorless
Alkalinity	Passes Test	Passes Test
Ammonium	500 ppm maximum	<500 ppm
Biuret	0.1% maximum	<0.1%
Heavy Metals	10 ppm maximum	< 10 ppm
Identification A	132 – 135°C	133 – 135°C
Identification B (IR)	Passes Test	Passes Test
Identification C	Passes Test	Passes Test
Identification D	Passes Test	Passes Test
Loss on Drying	1.0% maximum	0.2%
Residue on Ignition	0.1% maximum	< 0.1%

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0006

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.

RESIDUAL SOLVENTS STATEMENT: Based on the manufacturing process and the controlled handling, storage and analysis of this product, this product complies with the requirement and specifications listed in the current USP method <467> Tables 1,2,3, or 4.

Prepared by: Shil McCall Date: 3/12/26 Job Title: QA Tech III

Reviewed by: John Bigham Date: 3/13/26 Job Title: QA Supervisor