

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

| Effective Date:      | 12-Apr-2024                           | 12-Apr-2027        | : Date of Next Review |
|----------------------|---------------------------------------|--------------------|-----------------------|
| Prepared By:         | Taylor Yurick                         | BSI-COA-0149 v.3.0 | : Supersedes          |
| QA/QC Approval:      | Shana Geffken                         | Jessica DeMaio     | : Management Approval |
| Reason for Revision: | See Revision History in MasterControl |                    |                       |

## CERTIFICATE OF ANALYSIS UREA

## BIO EXCIPIENT GRADE / UREA-3250-12

LOT: UREA-S04-0924-0031

NH<sub>2</sub>CONH<sub>2</sub> → F.W. 60.06 g/mol. → CAS# 57-13-6

Manufacturing Date: 09/01/24 Retest Date: 09/30/26 Manufacturing Site: 1474 Rockdale Lane, Stroudsburg, PA 18360

Packaging Date: 09/30/24 Packaging Site: 100 Majestic Way, Bangor PA, 18013

Meets or Exceeds USP / EP / BP Specifications

|                          | A TO A ANALYSIS OF THE | 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%      | 99.8%            |  |  |
| Endotoxin                |                        | 2.5 EU/g maximum | < 0.5 EU/g       |  |  |
|                          | DNase                  | None Detected    | None Detected    |  |  |
| Enzymes                  | Protease               | None Detected    | None Detected    |  |  |
|                          | RNase                  | None Detected    | None Detected    |  |  |
| Heavy Metals             |                        | 10 ppm maximum   | < 10 ppm         |  |  |
| Identification A(IR)     |                        | Passes Test      | Passes Test      |  |  |
| Identification B         |                        | Passes Test      | Passes Test      |  |  |
|                          | Organic                | ≤ 0.1%           | 0.07%            |  |  |
| Impurities               | Total                  | ≤ 2.0%           | 0.07%            |  |  |
|                          | Unspecified            | ≤ 0.1%           | < 0.05%          |  |  |
| Insoluble Matter         |                        | 0.010% maximum   | 0.001%           |  |  |
| Loss on Drying           |                        | 1.0% maximum     | 0.3%             |  |  |
| Melting Range            |                        |                  | 133 - 135°C      |  |  |
| Residue on Ignition      | - 1                    |                  | 0.008%           |  |  |
| Trace Metals             | Arsenic (As)           | 5 ppm maximum    | < 0.45 ppm       |  |  |
|                          | Copper (Cu)            | 5 ppm maximum    | < 0.15 ppm       |  |  |
|                          | Iron (Fe)              | 5 ppm maximum    | < 0.30 ppm       |  |  |
|                          | Lead (Pb)              | 5 ppm maximum    | < 0.30 ppm       |  |  |

|                        | EP REQUIREMENTS     | ell elleretting     |
|------------------------|---------------------|---------------------|
| Analysis               | SPECIFICATION       | TEST RESULT         |
| Assay                  | 98.5 – 101.5%       | 99.8%               |
| 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        | 0.3%                |
| Residue on Ignition    | 0.1% maximum        | < 0.1%              |

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: BSI-ATM-0006

<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>RESIDUAL SOLVENTS STATEMENT:</u> 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: Anil McCall | _ Date: _            | 10/3/94 | _ Job Title: _ | GA Tech 1     |
|--------------------------|----------------------|---------|----------------|---------------|
| Reviewed by: Javon Hughn | _ Date: <sub>-</sub> | 10/3/24 | _ Job Title: _ | QA Supervisor |