DCN: 20-001826 v.2.0



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

| Effective Date: 14-Jul-2020                         | 14-Jul-2023 : Date of Next Review |
|---|-----------------------------------|
| Prepared By: Amy Hosein                             | 20-001826 v.1.0 : Supersedes      |
| QA/QC Approval: Carissa McCollian                   | Amy Yencho : Management Approval  |
| Reason for Revision: See Revision History in ensur. |                                   |

## **CERTIFICATE OF ANALYSIS**

## GUANIDINE THIOCYANATE BIO ULTRA GRADE / GT5221 – K025

LOT: GT5221-007-0920

NH<sub>2</sub>C(NH)NH<sub>2</sub>-HSCN \* F.W. 118.16 g mol. \* CAS#: 593-84-0 Manufacturing/Packaging Date: 9/30/20 Retest Date: 9/30/22 Packaging Site: 100 Majestic Way, Bangor PA, 18013

| Analysis                              |                | SPECIFICATION         | TEST RESULT           |  |
|---------------------------------------|----------------|-----------------------|-----------------------|--|
| Appearance and Color                  |                | White / Crystals      | White / Crystals      |  |
| Assay, Dried Basis                    |                | ≥ 99.0%               | 100.0%                |  |
| Enzymes                               | DNase          | None Detected         | None Detected         |  |
|                                       | RNase          | None Detected         | None Detected         |  |
| Heavy Metals (as Lead)                |                | ≤ 5 ppm               | <5 ppm                |  |
| Identification (IR)                   |                | Conforms to Structure | Conforms to Structure |  |
| Solubility (Colour)                   |                | Colorless             | Colorless             |  |
| Solubility (Turbi<br>H <sub>2</sub> O | dity) 100mg/mL | Clear                 | Clear                 |  |
| Trace Metals                          | Barium (Ba)    | ≤ 0.0005%             | ≤0.0005%              |  |
|                                       | Iron (Fe)      | ≤ 0.0005%             | ≤0.0005%              |  |
|                                       | Potassium (K)  | ≤ 0.005%              | ≤0.005%               |  |
|                                       | Sodium (Na)    | ≤0.5%                 | ≤0.5%                 |  |

TEST METHOD REFERENCE: 16-000043

<u>INTENDED USE:</u> Material represented by this Certificate of Analysis is suitable for use as a process chemical. The material represented by this Certificate of Analysis is not suitable to be used as an Excipient, Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

| Prepared by:       | Date: _ | 10/1/20 | _ Job Title: _ | QA | Supervisor |
|--------------------|---------|---------|----------------|----|------------|
| Reviewed by: White |         |         |                |    |            |