

### **GMP BIOTECH PRODUCT**

## GUANIDINE THIOCYANATE GMP

CAS #: 593-84-0 Formula: C<sub>2</sub>H<sub>6</sub>N<sub>4</sub>S F.W.: 118.16 g/mol

#### GTHI-4221

## **BIO PHARMA GRADE**

| <u> </u>                              |   |   |
|---------------------------------------|---|---|
| Analysis                              |   | SPECIFICATIONS  |
| Absorbance (1.7M)                     | 280 nm<br>300 nm<br>340 nm  | < = 0.300 a.u.<br>< = 0.050 a.u.<br>< = 0.030 a.u.  |
| Appearance and Color                  |   | White Crystals  |
| Assay, Dried Basis                    |   | 99.0 - 101.0%   |
| Enzymes                               | DNase<br>Protease<br>RNase  | None Detected<br>None Detected<br>None Detected   |
| Identification, IR                    |   | Conforms to<br>Reference Standard   |
| Loss on Drying                        |   | < = 0.5%  |
| Melting Range                         |   | 115 - 121°C   |
| pH (5%)                               |   | 5.0 - 7.0   |
| Sulfated Ash                          |   | < = 0.5%  |
| Sulfate                               |   | < = 50 ppm  |
| Trace<br>Metals I<br>Ma<br>Ma<br>Moly | Arsenic (As) Aluminum (Al) Barium (Ba) Bismuth (Bi) Calcium (Ca) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Potassium (K) Lead (Pb) Lithium (Li) gnesium (Mg) nganese (Mn) bdenum (Mo) Sodium (Na) Nickel (Ni) Strontium (Sr) | < = 5 ppm<br>< = 5 ppm<br>< = 5 ppm<br>< = 5 ppm<br>< = 10 ppm<br>< = 5 ppm |

# Intended for Use in Biopharmaceutical & Biotechnological Applications and Products This is a high purity, reagent grade product, purity

This is a high purity, reagent grade product, purified under cGMP conditions. Guanidine Thiocyanate is a chaotropic agent. As one of the strongest protein denaturants, it inactivates nucleases more than twice as fast as Guanidine Hydrochloride. Guanidine Thiocyanate is preferred for the purification of RNA because it dissociates the RNA into its nucleic acids and protein forms. Higher molarity solutions of Guanidine Thiocyanate irreversibly inactivate RNase. Guanidine Thiocyanate causes proteins to dissolve readily, thus disintegrating cellular structures.

#### **General Product Description**

- Appears as a white crystalline product
- Manufactured in accordance with IPEC
- Manufactured in an enzyme free, hormone free and animal free environment
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: Guanidine Isothiocyanate
- Visit the product page on our website (<u>www.biospectra.us</u>) for additional information, supporting regulatory documents, and CoAs.

## **Storage and Shipping Conditions**

Refer to SDS.

#### **Standard Shelf Life Policy**

Each Certificate of Analysis will contain a 2-year retest date supported by a 3-year ICH Q1 Stability Study (if one is completed).

#### **Package Sizes**

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg

#### **Standard Lead Time**

2-4 weeks

This is not considered a controlled document. We are not responsible for any errors or omissions, and the user is responsible for any decisions based on the information herein.

**Country of Origin: USA**