

GUANIDINE THIOCYANATE

BIOTECH, GMP

_	CAS #: 59	3-84-0 Formula: C ₂ I	H ₆ N ₄ S F.W.: 118.16 g/ mol
	GTHI-42	21	BIO PHARMA GRADE
	Analysis	Specifications	Intended for Use in Biopharmaceutical &
	Absorbance (1.7M) 280 nm 300 nm 340 nm	≤ 0.300 a.u. ≤ 0.050 a.u. ≤ 0.030 a.u.	Biotechnological Applications and Products This is a high purity, GMP, Reagent Grade product, purified under full cGMP conditions. Guanidine
	Appearance and Color	White / Crystals	Thiocyanate is a chaotropic agent. As one of the
	Assay	99.0 - 101.0%	strongest protein denaturants, it inactivates nucleases more than twice as fast as Guanidine
	DNase Enzymes Protease RNase	None Detected None Detected None Detected	Hydrochloride. Guanidine Thiocyanate is preferred for the purification of RNA because it dissociates the RNA into its nucleic acids and protein forms. Higher
	Identification, IR	Conforms to Reference Standard	molarity solutions of Guanidine Thiocyanate irreversibly inactivate RNase. Guanidine Thiocyanate
	Loss on Drying	<u><</u> 0.5%	causes proteins to dissolve readily, thus
	Melting Range	115 - 121ºC	disintegrating cellular structures.
	pH (5% solution)	5.0 - 7.0	General Product Description Appears as a white crystalline product
	Sulfated Ash	<u><</u> 0.5%	Appears as a write crystalline product Manufactured under an ICH-Q7 Quality Managed
	Sulfate	<u><</u> 50 ppm	cGMP System
	Arsenic (As) Aluminum (Al) Barium (Ba) Bismuth (Bi) Calcium (Ca) Cadmium (Cd)	≤ 5 ppm ≤ 5 ppm ≤ 5 ppm ≤ 5 ppm ≤ 10 ppm ≤ 5 ppm	 Manufactured in an enzyme free, hormone free and animal free environment 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
	Trace Metals Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Potassium (K) Lead (Pb) Lithium (Li)	≤ 5 ppm ≤ 50 ppm ≤ 5 ppm ≤ 5 ppm ≤ 5 ppm	 parts, animal products, and/or animal byproducts/derivatives. Is not subject to genetic modification Synonyms: Guanidine Hydro Thiocyanate, Guanidine Isothiocyanate, Guanidine Mono Thiocyanate Visit the product page on our website (www.biospectra.us) for additional information,
	Magnesium (Mg)	<u><</u> 5 ppm	supporting regulatory documents, and CofAs.
	Manganese (Mn) Molybdenum (Mo) Sodium (Na) Nickel (Ni) Strontium (Sr) Zinc (Zn)	≤ 5 ppm ≤ 5000 ppm ≤ 5 ppm ≤ 5 ppm	Storage and Shipping Conditions Refer to SDS. Standard Shelf Life Policy Each Certificate of Analysis will contain a 2-year retest/recertification date supported by a 3-year ICH Q1 Stability Study (if one is completed). Package Sizes
Country of Origin: USA		igin: USA	100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg Standard Lead Time

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1-2 weeks