BIOBUFFER SOLUTIONS

REAGENT

GUANIDINE THIOCYANATE

ENZYME FREE

CAS #: 593-84-0 **Formula: $C_2H_6N_4S$** **F.W.: 118.16 g/mol**

GTHI-5220

BIO ULTRA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (1.7M)	280 nm 300 nm 340 nm	< = 0.400 a.u. < = 0.070 a.u. < = 0.050 a.u.
Appearance and Color		White Crystals
Assay, Dried Basis		> = 99.0%
Enzymes	RNase DNase	None Detected None Detected
Identification, IR		Conforms to Reference Standard
Melting Range		115 - 121°C
pH (5%)		5.0 – 7.0
Solubility (35%)		Passes Test
Trace Metals	Barium (Ba) Iron (Fe) Lead (Pb) Potassium (K) Sodium (Na)	< = 5 ppm < = 5 ppm < = 5 ppm < = 50 ppm < = 5000 ppm

General Product Overview

Guanidine Thiocyanate is a chaotropic agent. As one of the strongest protein denaturants, it inactivates nucleases more efficiently than 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.

Industry Application

Suitable for use in biological and biotech chemical process applications from R&D through scale production.

Key Product Features

- Appears as white crystalline powder
- 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

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Please inquire for information regarding shelf life.

Package Sizes

1kg, 5kg, 10kg, 25kg, 50kg

Click here to view SDS, CoAs and other supporting regulatory documents on our website.