

GMP BIOTECH PRODUCT

GUANIDINE HYDROCHLORIDE NF, GMP

CAS #: 50-01-1 Formula: CH_5N_3 HCI F.W.: 95.53 g/mol

GHCL-4223

BIO PHARMA GRADE

dilot 1220		
Analysis		SPECIFICATIONS
Acidity (NF)		< = 0.01%
Appearance and Color		White Crystals
Assay, Dried Basis (NF)		99.5 - 101.5%
Enzymes	DNase Protease RNase	None Detected None Detected None Detected
Identification A, IR (NF)		Conforms to Reference Standard
Identification B, Absorbance (6M) (NF)	230 nm 260 nm 275 nm	< = 0.2000 a.u. < = 0.0300 a.u. < = 0.0300 a.u.
Identification C, Chloride (NF)		Passes Test
Limit of Nitrate (NF)		< = 50 ppm
Loss on Drying (NF)		< = 0.5%
Melting Range (NF)		184 - 188°C
pH (6M)		4.5 - 6.0
Residue on Ignition (NF)		< = 0.05%
Solubility (6M)		Passes Test
Sulfate (NF)		< = 50 ppm
Trace Metals	Aluminum (Al) Arsenic (As) Barium (Ba) Bismuth (Bi) Calcium (Ca) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Potassium (K) Lithium (Li) Magnesium (Mg) Manganese (Mn) Molybdenum (Mo) Sodium (Na) Nickel (Ni) Lead (Pb) Strontium (Sr) Zinc (Zn)	< = 5 ppm < = 5 ppm < = 5 ppm < = 5 ppm < = 10 ppm < = 5 ppm
Water, KF	ZIIIO (ZII)	< = 0.3%
Water Insoluble Substances (NF)		< = 0.05%

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, reagent Grade product, purified under full cGMP conditions. Guanidine Hydrochloride Buffer is a strong protein denaturant that functions as a chaotropic agent. As a denaturant, it acts to unfold proteins and turn them into their original polypeptide chains. As a chaotropic agent, it breaks down the structure of proteins. It is commonly used in the purification of RNA by dissociating the RNA into its nucleic acids and protein forms. At higher concentrations, Guanidine HCl Buffer decreases enzyme activity. It is also used to increase the solubility of hydrophobic molecules.

General Product Description

- Appears as a white crystalline product
- Manufactured under an IPEC Quality Managed cGMP System
- 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 parts, animal products, and/or animal byproducts/derivatives.
- Is not subject to genetic modification
- Synonyms: Guanidine Monohydrochloride, Guanidinium Chloride, Guanidinium Hydrochloride Buffer
- Visit the product page on our website (<u>www.biospectra.us</u>) for additional information, supporting regulatory documents, and CofAs.

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

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

Standard Lead Time

1-2 weeks

Country of Origin: USA

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