

GMP BIOTECH PRODUCT

GUANIDINE HYDROCHLORIDE NF, GMP

CAS #: 50-01-1

Formula: NH₂C(NH)NH₂·HCl

F.W.: 95.53 g/mol

GHCL-4223

BIO PHARMA GRADE

ANALYSIS Acidity (NF) Appearance and Color Assay, Dried Basis (NF) DNase Enzymes Protease RNase Identification A, IR (NF) Identification C, Chloride (NF) Loss on Drying (NF) Aluminum (Al) Arsenic (As) Barium (Ba) Bismuth (Bi) Calcium (Ca) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Iron (Fe) Potassium (Mg) Manganese (Mn) Molybdenum (Mo) Sodium (Na) Nickel (Ni) Lead (Pb) Strontium (Sr) Zinc (Zn) Water Insoluble Substances (NF) Weiter Sassa (NF) Passes Test Spen None Detected None	All sections is a state to be a second and the seco			
Appearance and Color Assay, Dried Basis (NF) Enzymes DNase Protease RNase Identification A, IR (NF) Identification B, 230 nm Absorbance (6M) (NF) 260 nm 275 nm 20300 a.u. 200300 a.u. 2003000 a.u. 200300 a.u. 2003000 a.u. 200300 a	Analysis		SPECIFICATIONS	
Assay, Dried Basis (NF)	Acidity (NF)		< = 0.01%	
DNase	Appearance and Color		White Crystals	
Enzymes	Assay, Dried Basis (NF)		99.5 - 101.0%	
Identification A, IR (NF)	Enzymes	Protease	None Detected	
Absorbance (6M) (NF) 260 nm 275 nm < = 0.0300 a.u. < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 < = 0.0500 <	Identification A, IR (NF)			
Limit of Nitrate (NF)	· ·	260 nm	< = 0.0300 a.u.	
Loss on Drying (NF)	Identification C, Chloride (NF)		Passes Test	
Melting Range (NF) 184 - 188°C pH (6M) 4.5 - 6.0 Residue on Ignition (NF) < = 0.05%	Limit of Nitrate (NF)		< = 50 ppm	
PH (6M)	Loss on Drying (NF)		< = 0.5%	
Residue on Ignition (NF)	Melting Range (NF)		184 - 188°C	
Solubility (6M)	pH (6M)		4.5 - 6.0	
Sulfate (NF) <= 50 ppm	Residue on Ignition (NF)		< = 0.05%	
Aluminum (AI) 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) V = 5 ppm S = 5 pp	Solubility (6M)		Passes Test	
Arsenic (As)	Sulfate (NF)		< = 50 ppm	
	Trace Metals	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)	< = 5 ppm < = 5 ppm < = 5 ppm < = 10 ppm < = 5 ppm < = 5 ppm < = 5 ppm < = 5 ppm < = 50 ppm < = 5 ppm	
Water Insoluble Substances (NF) <= 0.05%	Water, KF		< = 0.3%	
	Water Insoluble Substances (NF)		< = 0.05%	
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Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, reagent Grade product, purified under cGMP conditions. Guanidine Hydrochloride 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 decreases enzyme activity. It is also used to increase the solubility of hydrophobic molecules.

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 Monohydrochloride, Guanidinium Chloride, Guanidinium Hydrochloride
- Visit the product page on our website (<u>www.biospectra.us</u>) for additional information, supporting regulatory documents, and CoAs.

Storage and Shipping ConditionsRefer 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

Country of Origin: USA

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