

GMP BIOTECH PRODUCT

GUANIDINE HYDROCHLORIDE

BIOTECH, NF, GMP

CAS #: 50-01-1

Formula: CH₅N₃ HCl

F.W.: 95.53 g/mol

GHCL-4223

BIO PHARMA GRADE

GIIOL-4223			
	Analysi	S	SPECIFICATIONS
	Acidity (NF)		≤ 0.01%
	Appearance and Color		White/Crystals
	Assay, Dried Basis (NF)		99.5 - 101.5%
	Chloride and Sulfate, Sulfate (NF)		≤ 50 ppm
		DNase	None Detected
	Enzymes	Protease	None Detected
		RNase	None Detected
	Identification A, IR (NF)		Conforms to Reference
	230 nm		Standard < 0.2000 a.u.
	Identification B,	260 nm	<u><</u> 0.2000 a.u. ≤ 0.0300 a.u.
	Absorbance (NF)	275 nm	<u><</u> 0.0300 a.u. ≤ 0.0300 a.u.
/	Identification C, Chloride (NF)		Meets the
			Requirements of Test A
	Limit of Nitrate (NF)		<u><</u> 50 ppm
	Loss on Drying (NF)		<u><</u> 0.5%
	Melting Range (NF)		184 - 188°C
	pH (6M)		4.5 - 6.0
	Residue on Ignition (NF)		<u><</u> 0.05%
	Solubility (6M)		Passes Test
	Trace Metals	Aluminum (Al)	<u><</u> 5 ppm
		Arsenic (As)	<u><</u> 5 ppm
		Barium (Ba)	≤ 5 ppm
		Bismuth (Bi) Calcium (Ca)	<u><</u> 5 ppm <u><</u> 10 ppm
		Cadmium (Cd)	<u>< 5 ppm</u> ≤ 5 ppm
		Cobalt (Co)	<u>≤</u> 5 ppm
		Chromium (Cr)	<u>_</u> 5 ppm ≤ 5 ppm
		Copper (Cu)	 <u><</u> 5 ppm
		Iron (Fe)	<u><</u> 5 ppm
		Potassium (K)	<u><</u> 50 ppm
		Lithium (Li)	<u><</u> 5 ppm
		Magnesium (Mg)	<u><</u> 5 ppm
		Manganese (Mn)	<u><</u> 5 ppm
		Molybdenum (Mo)	<u><</u> 5 ppm
		Sodium (Na)	< 150 ppm
		Nickel (Ni)	≤ 5 ppm
		Lead (Pb)	≤ 5 ppm
		Strontium (Sr)	≤ 5 ppm
	Water KE	Zinc (Zn)	≤ 5 ppm
	Water, KF		≤ 0.3% ≤ 0.05%
	Water Insoluble (NF)		<u>~</u> 0.0370

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, GMP, 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 ICH-Q7 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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