

## **GUANIDINE HYDROCHLORIDE**

**BIOTECH, NF, GMP** 

CAS #: 50-01-1

Formula: CH<sub>5</sub>N<sub>3</sub> HCl

F.W.: 95.53 g/mol

## **GHCL-4223**

**BIO PHARMA GRADE** 

1	Analysis	SPECIFICATIONS	
	Acidity (NF)	<u>&lt;</u> 0.01%	
	Appearance and Color	White/Crystals	
	Assay, Dried Basis (NF)	99.5 - 101.0%	
	Chloride and Sulfate, Sulfate (NF)	<u>&lt;</u> 50 ppm	
	DNase		
	Enzymes Protease	None Detected	
	RNase		
	Identification A, IR (NF)	Conforms to Reference	
		Standard	
	Identification B, 230 nm	_	
	Absorbance (NF) 260 nm 275 nm	_	
		<u>≤</u> 0.0300 a.u. Meets the	
	Identification C, Chloride (NF)	Requirements of Test A	
	Limit of Nitrate (NF)	<u>&lt;</u> 50 ppm	
	Loss on Drying (NF)	< 0.5%	
	Melting Range (NF)	<u>184 - 188°C</u>	
	pH (6M)	4.5 - 6.0	
	Residue on Ignition (NF)	< 0.05%	
	Solubility (6M)	Passes Test	
	Aluminum (Al)		
	Arsenic (As)		
	Barium (Ba)		
1	Bismuth (Bi)		
	Calcium (Ca)		
	Cadmium (Cd)		
	Cobalt (Co) Chromium (Cr)		
	Copper (Cu)		
	Trace Metals		
	Potassium (K)		
	Lithium (Li)		
	Magnesium (Mg) Manganese (Mn)		
	Manganese (i Molybdenum (i		
	Sodium (Na)		
	Nickel (Ni)		
	Lead (Pb)		
	Strontium (Sr)		
	Zinc (Zn)	<u>&lt; 5 ppm</u>	
	Water, KF	<u>&lt;</u> 0.3%	
	Water Insoluble (NF)	<u>&lt;</u> 0.05%	
Country of Origin: USA			

## Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

	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	
	<ul> <li>Appears as a white crystalline product</li> </ul>	
	Manufactured under an ICH-Q7 Quality Managed	
	cGMP System	
	Manufactured in an enzyme free, hormone free and	
	animal free environment	
	<ul> <li>No known major food allergens (as defined by FDA</li> </ul>	
	and WHO)	
	<ul> <li>The final product and its raw materials are not derived</li> </ul>	
	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 Chlorida, Guanidinium Hydrochlorida	
	Guanidinium Chloride, Guanidinium Hydrochloride Buffer	
	Visit the product page on our website     (usual bioprostre us) for additional information	
	(www.biospectra.us) 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	
ļ	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	
1	Standard Lead Time	

**Country of Origin: USA** 

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1-2 weeks