

Excipient

ICH-Q7 GMP Manufactured Product

GUANIDINE HCl, NF, GMP Excipient Grade

INTENDED FOR CRITICAL BIOPHARMA APPLICATIONS

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. Guanidine Hydrochloride is commonly used in the purification of RNA by dissociating the RNA into its nucleic acids and protein forms. At higher concentrations, Guanidine Hydrochloride decreases enzyme activity. It is also used to increase the solubility of hydrophobic molecules.

(If No Stock) Lead Time: 1-month Minimum Order Quantity: 500kg

$H_{2N} \rightarrow HCI$

CAS #: 50-01-1 Molecular Formula: CH₅N₃ • HCl Solubility in Water (g/L): 573 F.W.: 95.53 g/mol pH @ 20°C: 4.5 - 6.0

BIO EXCIPIENT GRADE | Product Code: GHCL-3220 | Previously: GH3220

NH₂C(NH)₂HCI • F.W. 95.53 g/mol. • CAS# 50-01-1



These are general specifications. BioSpectra will customize our products to meet your quality based requirements.

ANALYSIS		SPECIFICATIONS	
Acidity		≤0.01%	
Appearance and Color		White / Crystals	
Assay (Dried Basis)		99.5%-101.0%	
Chloride and Sulfate, Sulfate		≤0.005%	
Enzymes	DNase Protease RNase	None Detected None Detected None Detected	
Identification A (IR)		Passes Test	
Identification B, Absorbance	230 nm 260 nm 275 nm	≤ 0.2000 a.u. ≤ 0.0300 a.u. ≤ 0.0300 a.u.	
Identification C – Chloride		Meets the Requirement of Test A	
Limit of Nitrate		≤0.005%	
Loss on Drying		≤0.5%	
Melting Range		184°C-188°C	
рН (6М)		4.5-6.0	
Residue on Ignition		≤0.05% max.	
Solubility (6M)		Passes Test	
Trace Metals	Arsenic (As) Copper (Cu) Iron (Fe) Lead (Pb)	≤ 5 ppm ≤ 5 ppm ≤ 5 ppm ≤ 5 ppm ≤ 5 ppm	
Water by Karl Fischer		NMT 0.3% w/w	
Water Insoluble		≤0.05%	



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Quality Assurance / Regulatory Support / Quality Control

BI©SPECTRA Key Compliance Attributes of BioSpectra Grades	Bio Excipient Grade ICH-Q7 Compliant Manufactured
Suitable for Research and Diagnostic	✓
Each Batch 100% Analyzed	✓
Management of Change	✓
Validated Analytical Methods	✓
Compendial Testing	✓
Trace Metals Analyzed	✓
Stability Testing Program	✓
BioSpectra Supply Chain Audit Trail	✓
Product Origin Statement	✓
Customer Quality Audits	✓
Validated Manufacturing Process	✓
US Manufactured at BioSpectra	✓
IPEC cGMP Compliant Manufactured	✓
Customized Additional Specifications	✓
Multi-Compendial Testing	✓
Low Bioburden Low Endotoxin (LBLE)	✓
Enzyme Tested	✓
Suitable for use as Excipient	✓
Microbial / Endotoxin Tested	✓
Manufactured in FDA Registered Facility	√
Customized Manufacturing Schedule	✓ ✓
Custom Regulatory Packet Accelerated Stability	· ·
Video Conference access to BioSpectra Sites	•
Complete access to Product Traceability	· · · · · · · · · · · · · · · · · · ·
Access to Supply Chain Information	✓
ICH-Q7 Qualified Utilities	✓
ICH-Q7 Compliant Manufactured	✓
Type IV Drug Master File	✓

 \checkmark indicates an attribute or level of compliance which is granted or available based on the purchase of the product grade.

Bio Excipient Grade: Intended for use as ICH-Q7 Compliant Excipient

LBLE: LBLE applies when product specifications include requirements for Bioburden Testing (TAMC/TYMC and/or Endotoxin).

LBLE stands for Low Bioburden, Low Endotoxin non-sterile products suitable for further use in parenteral manufacturing and other sterile applications.

General Product Description:

- The manufacturing of Guanidine Hydrochloride GHCL-3220 is performed at BioSpectra's Stroudsburg, PA facility and is conducted in a dedicated processing area using only dedicated equipment.
- Guanidine HCl is a White Crystalline product.
- Molecular Formula: NH₂C(NH)NH₂HCl.
- Molecular Weight: 95.53 g/mol.
- CAS Number: 50-01-1.
- There are no known major food allergens (as defined by FDA and WHO) in the manufacture of this product.
- BioSpectra certifies that all Guanidine Hydrochloride GHCL-3220 manufactured at BioSpectra and its raw materials are not derived from or come in contact with animal parts, products, and/or byproducts.
- Guanidine Hydrochloride manufactured at BioSpectra and any raw materials used in the manufacture of Guanidine Hydrochloride at BioSpectra are not subject to genetic modification.
- Synonyms: Guanidine Monohydrochloride, Guanidinium Chloride, Guanidinium Hydrochloride.

GMP Compliance:

Bio Excipient Grade Guanidine Hydrochloride, GHCL-3220 is suitable for use as an excipient. It is manufactured in accordance with the ICH-Q7 Good Manufacturing Practice Guide. This grade of Guanidine Hydrochloride is not suitable to be used as an Active Pharmaceutical Ingredient, Drug Product or Household Item.

Retest Date:

The recommended retest period for Guanidine Hydrochloride is two years from the date of manufacture.

Storage and Shipping Conditions:

Ship and Store in ambient temperature.

Package Sizes:

10kg, 25 kg and 50 kg pails.

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