

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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Certificate of Analysis

Guanidine Hydrochloride 99.5%

Catalog Number:

GH1001

Lot Number:

0427701

CAS Number:

50-01-1

Molecular Formula:

CH₅N₃•HCl

Molecular Weight:

95.53

Storage:

15°C to 30°C

Date of Manufacture:

January 10, 2017

Retest Date:

January 9, 2020

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay (by titration)	≥ 99.5%	99.90%
Identification (by IR)	To meet requirements	Conforms
Melting point	185.0° to 188.0°C	185.8 to 187.2°C
pH (1:10 dilution in H₂0 @25°C)	5.0 to 7.0	6.2
Solubility (6M solution in H ₂ 0)	Clear and colorless	Conforms
Absorbance (6M solution in H ₂ 0)		
230nm	≤ 0.14	0.07
240nm	≤ 0.05	0.01
260nm	≤ 0.03	0.04
Moisture (LOD)	≤ 1.0%	0.49%
Ash	≤ 0.05%	0.02%
Heavy Metals (Pb)	≤ 0.5%	0.01%
Copper (Cu)	≤ 1 ppm	< 1ppm
Iron (Fe)	≤ 1 ppm	0.4ppm
Zinc (Zn)	≤ 1 ppm	< 1ppm
DNase	None detected	Conforms
RNase	None detected	Conforms
Protease	None detected	Conforms

Approved by:

Date: April 27, 2017

John Grubb, PhD

Gojira Fine Chemicals, LLC

Quality Manager

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