

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-11-22 16:09:52
 Date of Next Testing: 2027-11-12 16:09:52
 Product Name: **Guanidine Hydrochloride(GACI)**
 CAS Number: 50-01-1
 Specifications & Purity: Suitable for molecular biology, ≥99.5%
 Lot #: K2518207
 SKU #: **G108673**
 Version: **0**
 Analysis #: **602183**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.05 (%)	0.00000 %
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	2.00000 ppm
Loss on drying	0-0.5 (%)	0.44470 %
UV Absorbance 260nm	0-0.03	0.00700
(As)Arsenic	0-0.1 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Sulfate(SO42-)	0-50 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Melting point	187-190 (°C)	187.06600 °C
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
UV Absorbance 280nm	0-0.02	0.00000
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
(Pb)Lead	0-5 (ppm)	0.00000 ppm
Purity(Titration by AgNO3)	99.5-100.5 (%)	99.78000 %
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm

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Parameter	Limit Values	Result
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
pH	4.5-6	5.76800
Appearance (g108673)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
DNases	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , Colorless	pass	Pass
λ,6 M in H ₂ O (6mol/L, H ₂ O)	Pass	Pass



John Su
QA & QC Manager