

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

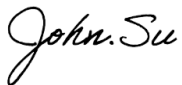
Date of Testing:	2024-12-09 12:20:27
Date of Next Testing:	2027-12-09 12:20:27
Product Name:	Imidazole
CAS Number:	288-32-4
Specifications & Purity:	UltraBio™, Ultra pure, BioReagent, ≥99.5%(GC)
Lot #:	L2406348
SKU #	I432538
Version	1
Analysis #:	445758

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.90%
Water by Karl Fischer	0-0.2 (%)	0.13%
Residue on Ignition	0-0.05 (%)	0.00200%
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	0.00 ppm
PH(Solution)	9.5-11	10.01000

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Parameter	Limit Values	Result
Uv-Abs. At 260 nm	0-0.1	0.03000
Uv-Abs. At 280 nm	0-0.1	0.03700
Appearance(I432538)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility(method) 0.204g in 30ml H2O(0.1M),clear colorless	Pass	Pass
Residue (filter test)	no residue	no residue



John Su
QA & QC Manager