

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-07 17:20:46
 Date of Next Testing: 2025-10-27 17:20:46
 Product Name: **Imidazole**
 CAS Number: 288-32-4
 Specifications & Purity: 99.5%,for molecular biology
 Lot #: K2306336
 SKU #: **I108706**
Analysis: **285401**
 Storage Temperature: Argon charged,Desiccated

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	1.04 ppm
(Pb)Lead	0-5 (ppm)	2.10 ppm
Manganese(Mn)	0-5	0.70
Magnesium(Mg)	0-5 (ppm)	1.20 ppm
Barium(Ba)	0-5 (ppm)	3.32 ppm
Melting point	86-92 (°C)	91.76000 °C
(As)Arsenic	0-0.1 (ppm)	0.07 ppm
UV Absorbance 260nm	0-0.1	0.02
UV Absorbance 280nm	0-0.1	0.01
Aluminum(Al)	0-10 (ppm)	6.33 ppm
Strontium(Sr)	0-5 (ppm)	0.01 ppm
Calcium(Ca)	0-50 (ppm)	21.60 ppm
Ignition Residue (as sulfate)	0-0.05 (%)	0.03 %
PH	9.5-11	10.50
Sodium(Na)	0-50 (ppm)	15.80 ppm
Chloride (Cl-)	0-50 (ppm)	12.66 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.11 ppm
Sulfate(SO42-)	0-50 (ppm)	18.06 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Water by Karl Fischer	0-0.2 (%)	0.10 %
Cadmium(Cd)	0-5 (ppm)	0.01 ppm
Bismuth(Bi)	0-5 (ppm)	0.03 ppm
Zinc(Zn)	0-5 (ppm)	0.85 ppm
Iron(Fe)	0-5 (ppm)	1.04 ppm

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Parameter	Limit Values	Result
Potassium(K)	0-50 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Purity(GC)	99.5-100 (%)	99.56 %
Appearance (I108706)	White Powder or Crystals	White Powder or Crystals
Fluorescence, λ_{ex} 200-600 nm; λ_{em} 300-800 nm (corresponds)	Conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
pKa	6.8	6.8
λ , 0.1 M in H ₂ O	Pass	Pass
DNases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected

John Su
QA & QC Manager