

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-10-31 10:55:38  
 Date of Next Testing: 2026-10-21 10:55:38  
 Product Name: **Imidazole**  
 CAS Number: 288-32-4  
 Specifications & Purity: for molecular biology,  $\geq 99.5\%$   
 Lot #: J2428330  
 SKU #: **I108706**  
 Version: **2**  
 Analysis #: **409965**  
 Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5	0.00
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Melting point	86-92 (°C)	91.78000 °C
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
UV Absorbance 260nm	0-0.1	0.03
UV Absorbance 280nm	0-0.1	0.03
Aluminum(Al)	0-10 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-50 (ppm)	0.00 ppm
Ignition Residue (as sulfate)	0-0.05 (%)	0.00 %
PH	9.5-11	9.78
Sodium(Na)	0-50 (ppm)	1.50 ppm
Chloride (Cl-)	0-50 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-50 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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 (%)	99.75 %
Water by Karl Fischer	0-0.2 (%)	0.16 %
Appearance (I108706)	White Powder or Crystals	White Powder or Crystals
Fluorescence, $\lambda_{ex}$ 200-600 nm; $\lambda_{em}$ 300-800 nm (corresponds)	Conforms	Conforms
$\lambda$ ,0.1 M in H <sub>2</sub> O	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
DNases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
phosphatases	none detected	none detected

John Su  
QA & QC Manager