

Certificate of Analysis

Date of Testing: 2025-07-25 16:27:54

Date of Next Testing: 2027-07-15 16:27:54

Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications & Purity: for molecular biology, ≥99.5%

Lot #: G2507470

SKU #: **I108706**

Version: **2**

Analysis #: **518574**

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)	91.89000 °C
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
UV Absorbance 260nm	0-0.1	0.04
UV Absorbance 280nm	0-0.1	0.05
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	9.84
Sodium(Na)	0-50 (ppm)	0.00 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
Water by Karl Fischer	0-0.2 (%)	0.13 %
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Purity(GC)	99.5-100 (%)	99.84 %
Appearance (I108706)	White Powder or Crystals	White Powder or Crystals
DNases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
λ , 0.1 M in H ₂ O	Pass	Pass
Fluorescence, λ_{ex} 200-600 nm; λ_{em} 300-800 nm (corresponds)	Conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure
phosphatases	none detected	none detected



John Su
QA & QC Manager