

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-22 10:35:50

Date of Next Testing: 2027-09-12 10:35:50

Product Name: **Imidazole**

CAS Number: 288-32-4

Specifications & Purity: Suitable for molecular biology, ≥99.5%

Lot #: I2512202

SKU #: **I108706**

Version: **2**

**Analysis #:** **565489**

Storage Temperature: Room temperature, Argon charged, Desiccated

| Parameter                     | Limit Values | Result      |
|-------------------------------|--------------|-------------|
| Cobalt(Co)                    | 0-5 (ppm)    | 0.00000 ppm |
| (Pb)Lead                      | 0-5 (ppm)    | 0.00000 ppm |
| Manganese(Mn)                 | 0-5          | 0.00000     |
| Magnesium(Mg)                 | 0-5 (ppm)    | 0.00000 ppm |
| Barium(Ba)                    | 0-5 (ppm)    | 0.00000 ppm |
| Melting point                 | 86-92 (°C)   | 91.91000 °C |
| (As)Arsenic                   | 0-0.1 (ppm)  | 0.00000 ppm |
| UV Absorbance 260nm           | 0-0.1        | 0.03200     |
| UV Absorbance 280nm           | 0-0.1        | 0.04400     |
| Aluminum(Al)                  | 0-10 (ppm)   | 0.00000 ppm |
| Strontium(Sr)                 | 0-5 (ppm)    | 0.00000 ppm |
| Calcium(Ca)                   | 0-50 (ppm)   | 0.00000 ppm |
| Ignition Residue (as sulfate) | 0-0.05 (%)   | 0.00000 %   |
| pH                            | 9.5-11       | 9.58000     |
| Sodium(Na)                    | 0-50 (ppm)   | 4.00000 ppm |
| Chloride (Cl-)                | 0-50 (ppm)   | 0.00000 ppm |
| Lithium(Li)                   | 0-5 (ppm)    | 0.00000 ppm |
| Molybdenum(Mo)                | 0-5 (ppm)    | 0.00000 ppm |
| Copper(Cu)                    | 0-5 (ppm)    | 0.00000 ppm |
| Sulfate(SO42-)                | 0-50 (ppm)   | 0.00000 ppm |
| Chromium(Cr)                  | 0-5 (ppm)    | 0.00000 ppm |
| Water by Karl Fischer         | 0-0.2 (%)    | 0.19530 %   |
| Cadmium(Cd)                   | 0-5 (ppm)    | 0.00000 ppm |
| Bismuth(Bi)                   | 0-5 (ppm)    | 0.00000 ppm |
| Zinc(Zn)                      | 0-5 (ppm)    | 0.00000 ppm |

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| Parameter                                                                        | Limit Values             | Result                   |
|----------------------------------------------------------------------------------|--------------------------|--------------------------|
| Iron(Fe)                                                                         | 0-5 (ppm)                | 0.00000 ppm              |
| Potassium(K)                                                                     | 0-50 (ppm)               | 1.00000 ppm              |
| Nickel(Ni)                                                                       | 0-5 (ppm)                | 0.00000 ppm              |
| Purity(GC)                                                                       | 99.5-100 (%)             | 99.83800 %               |
| Appearance (I108706)                                                             | White Powder or Crystals | White Powder or Crystals |
| DNases                                                                           | none detected            | none detected            |
| Fluorescence, $\lambda_{ex}$ 200-600 nm; $\lambda_{em}$ 300-800 nm (corresponds) | Conforms                 | Conforms                 |
| proteases                                                                        | none detected            | none detected            |
| RNases                                                                           | none detected            | none detected            |
| $\lambda$ , 0.1 M in H <sub>2</sub> O                                            | Pass                     | Pass                     |
| Infrared spectrum                                                                | Conforms to Structure    | Conforms to Structure    |
| phosphatases                                                                     | none detected            | none detected            |



John Su  
QA & QC Manager