

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

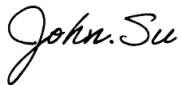
Date of Testing: 2024-07-12 15:25:25
 Date of Next Testing: 2028-07-11 15:25:25
 Product Name: **Imidazole**
 CAS Number: 288-32-4
 Specifications & Purity: 99.5%,for Fluorimetric Analysis
 Lot #: I2017022
 SKU #: **I108705**
 Version: **0**
 Analysis #: **386469**
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Nickel(Ni)	0-5 (ppm)	2.60 ppm
Potassium(K)	0-50 (ppm)	29.60 ppm
Iron(Fe)	0-5 (ppm)	3.30 ppm
Zinc(Zn)	0-5 (ppm)	3.40 ppm
Purity(GC)	99.5-100 (%)	99.80 %
Calcium(Ca)	0-10 (ppm)	6.30 ppm
Chloride (Cl-)	0-50 (ppm)	37.30 ppm
Sodium(Na)	0-50 (ppm)	26.70 ppm
Cadmium(Cd)	0-5 (ppm)	2.80 ppm
PH	9.5-11	9.91
Ignition Residue (as sulfate)	0-0.05 (%)	0.01 %
Chromium(Cr)	0-5 (ppm)	3.12 ppm
Strontium(Sr)	0-5 (ppm)	2.85 ppm
UV Absorbance 280nm	0-0.1	0.08
Copper(Cu)	0-5 (ppm)	2.20 ppm
UV Absorbance 260nm	0-0.1	0.08
Molybdenum(Mo)	0-5 (ppm)	2.30 ppm
Melting point	86-92 (°C)	87.30000 °C
Magnesium(Mg)	0-5 (ppm)	3.20 ppm
Lithium(Li)	0-5 (ppm)	2.40 ppm
Manganese(Mn)	0-5	2.40
(Pb)Lead	0-5 (ppm)	1.55 ppm
Cobalt(Co)	0-5 (ppm)	2.40 ppm
Water by Karl Fischer	0-0.2 (%)	0.06 %
Sulfate(SO42-)	0-50 (ppm)	19.10 ppm

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Appearance (I108705)	White to Off-White Powder	White to Off-White Powder
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
pKa	6.8	6.8
λ , 0.1 M in H ₂ O	Pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager