

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2022-02-09 21:05:58
Date of Next Testing:	2024-01-30 21:05:58
Product Name:	Imidazole
CAS Number:	288-32-4
Specifications & Purity:	99.5% , for buffer
Lot #:	B2207385
SKU #	I108704
Analysis:	067708
Storage Temperature:	Desiccated

Parameter	Limit Values	Result
PH(25 °C, 50 mg/mL in Water)	9.5-11	10.79
Cobalt(Co)	0-5 (ppm)	2.25 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.06 %
(Pb)Lead	0-5 (ppm)	2.60 ppm
Manganese(Mn)	0-5	3.10
Magnesium(Mg)	0-5 (ppm)	2.10 ppm
Copper(Cu)	0-5 (ppm)	2.12 ppm
Sulfate(SO42-)	0-50 (ppm)	20.13 ppm
Chromium(Cr)	0-5 (ppm)	2.42 ppm
Cadmium(Cd)	0-5 (ppm)	2.38 ppm
Sodium(Na)	0-50 (ppm)	20.16 ppm
Chloride (Cl-)	0-50 (ppm)	20.15 ppm
Calcium(Ca)	0-10 (ppm)	5.17 ppm
Purity(GC)	99.5-100 (%)	99.70 %
Zinc(Zn)	0-5 (ppm)	2.18 ppm
Iron(Fe)	0-5 (ppm)	2.16 ppm
Potassium(K)	0-50 (ppm)	16.52 ppm
Nickel(Ni)	0-5 (ppm)	1.25 ppm
UV Absorbance 260nm	0-0.01	0.01
Melting point	86-92 (°C)	91.91000 °C
UV Absorbance 280nm	0-0.01	0.01
Appearance (I108704)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
pKa	6.8	6.8

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Parameter	Limit Values	Result
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