

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-03-26 15:03:27
 Date of Next Testing: 2028-03-25 15:03:27
 Product Name: **3-Morpholinopropanesulfonic Acid (MOPS)**
 CAS Number: 1132-61-2
 Specifications & Purity: UltraBio™, Ultra pure, ≥99.5%(T)
 Lot #: C2519551
 SKU #: **M475317**
 Version: **2**
 Analysis #: **475197**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Loss on Drying(110°C)	0-1 (%)	0.25630 %
Residue on ignition(Ash)(SO ₄ , 900 °C)	0-0.1 (%)	0.00000 %
Sulfate(SO ₄ ²⁻)	0-0.005 (%)	0.00000 %
Chloride (Cl ⁻)	0-0.05 (%)	0.00000 %
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-0.001 (%)	0.00000 %
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-0.005 (%)	0.00000 %
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-0.005 (%)	0.00000 %
PH(1M Water)	2.5-4	3.56000
Purity (Titration by NaOH)	99.5-100.5 (%)	99.72000 %

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ParameterUV Absorbance 260nm(1 M in H₂O)UV Absorbance 280nm(1 M in H₂O)

Appearance(M475317)

Solubility in H₂O , Colorless and clear(500mg/ml)

Infrared spectrum

Limit Values

0-0.05

0-0.03

White Powder or Crystals

pass

Conforms to Structure

Result

0.02800

0.02600

White Powder or Crystals

Pass

Conforms to Structure

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager