

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-07 17:08:36
 Date of Next Testing: 2029-05-06 17:08:36
 Product Name: **MES**
 CAS Number: 4432-31-9
 Specifications & Purity: Suitable for molecular biology, ≥99.5%(T)
 Lot #: D2530211
 SKU #: **M108951**
 Version: **2**
 Analysis #: **507909**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Sulfate(SO42-)	0-50 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
(Pb)Lead	0-5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
PH(25 °C, 0.5 M in Water)	2.5-4	3.28100
Ignition Residue (as sulfate)	0-0.05 (%)	0.00000 %
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
(As)Arsenic	0-0.1 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-20 (ppm)	0.00000 ppm
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
UV Absorbance 260nm	0-0.025	0.01470
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Chloride (Cl-)	0-50 (ppm)	0.00000 ppm
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Purity(Neutralization titration)	99.5-100.5 (%)	100.15000 %
Potassium(K)	0-50 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm

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Parameter	Limit Values	Result
UV Absorbance 280nm	0-0.02	0.01170
Water by Karl Fischer	0-5 (%)	0.74480 %
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Appearance (M108951)	White Powder or Crystals	White Powder or Crystals
DNases	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ , 0.5 M in H ₂ O	Pass	Pass
pKa	6.1	6.1



John Su
QA & QC Manager