

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-22 09:11:54
 Date of Next Testing: 2029-06-21 09:11:54
 Product Name: **Magnesium chloride hexahydrate**
 CAS Number: 7791-18-6
 Specifications & Purity: UltraBio™, Suitable for molecular biology, Ultra pure, ≥99%(KT)
 Lot #: F2610032
 SKU #: **M434167**
 Version: **1**
 Analysis #: **426739**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Assay(Complexometric EDTA)	99-101 (%)	100.75000 %
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-50 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-2000 (ppm)	46.48000 ppm
Lithium(Li)	0-5 (ppm)	0.24000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-3000 (ppm)	71.77000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Phosphate(PO4)	0-5 (ppm)	0.00000 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	0.00000 ppm
Total Nitrogen	0-2 (ppm)	0.00000 ppm
Ph(25°C,1 M in H2O)	5-7.5	5.28100
UV Absorbance 260nm(at 1M in H2O)	0-0.03	0.00600

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Parameter	Limit Values	Result
UV Absorbance 280nm(at 1M in H ₂ O)	0-0.025	0.00200
Appearance(M434167)	fine crystals to crystals with lumps and/or deliquescent crystals	fine crystals to crystals with lumps and/or deliquescent crystals
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
extraneous activities DNAses, RNAses, Proteases, Phosphatases	Not Detectable	not detectable
Solubility(method) 1M in H ₂ O,clear colorless	Pass	Pass
Residue(filter test,No residue)	Pass	Pass

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