

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-21 11:00:01  
 Date of Next Testing: 2026-06-20 11:00:01  
 Product Name: **Magnesium chloride hexahydrate**  
 CAS Number: 7791-18-6  
 Specifications & Purity: Ultrapure BioReagent, ≥99.0% (KT)  
 Lot #: F2306918  
 SKU #: **M434166**  
**Analysis:** **217951**  
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Assay(titration (KT) EDTA 0.1M)	99-101 (%)	100.75000 %
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-50 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-2000 (ppm)	46.48 ppm
Lithium(Li)	0-5 (ppm)	0.24 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-3000 (ppm)	71.77 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Total phosphorus as PO4	0-5 (ppm)	0.00000 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	0.00 ppm
Ph(25°C,1 M in H2O)	5-7.5	5.28100
UV Absorbance 260nm(at 1M in H2O)	0-0.03	0.01

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Parameter	Limit Values	Result
UV Absorbance 280nm(at 1M in H2O)	0-0.025	0.00
Total Nitrogen	0-2 (ppm)	1.90 ppm
Appearance(M434166)	White Crystals or Crystals with Chunks(may agglomerate)	White Crystals or Crystals with Chunks(may agglomerate)
Solubility(method) 1M in H2O,clear colorless	Pass	Pass
Residue(filter test,No residue)	Pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure

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

John Su  
QA & QC Manager