

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2025-07-21 14:09:49
Date of Next Testing:	2027-07-11 14:09:49
Product Name:	Magnesium chloride hexahydrate
CAS Number:	7791-18-6
Specifications & Purity:	for molecular biology, ≥99%(T)
Lot #:	G2512023
SKU #	M116336
Version	1
Analysis #:	546423
Storage Temperature:	Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	1.50 ppm
Iron(Fe)	0-5 (ppm)	0.90 ppm
Nickel(Ni)	0-5 (ppm)	1.40 ppm
Bismuth(Bi)	0-5 (ppm)	0.04 ppm
PH	5-7.5	5.10
Molybdenum(Mo)	0-5 (ppm)	1.10 ppm
Strontium(Sr)	0-5 (ppm)	0.50 ppm
Sulfate(SO42-)	0-50 (ppm)	2.60 ppm
Copper(Cu)	0-5 (ppm)	2.90 ppm
(As)Arsenic	0-0.1 (ppm)	0.01 ppm
Phospate(PO4)	0-5 (ppm)	1.50 ppm
Lithium(Li)	0-5 (ppm)	0.08 ppm
Barium(Ba)	0-5 (ppm)	0.01 ppm
Water by Karl Fischer	51.5-53.5 (%)	52.53 %
Aluminum(Al)	0-5 (ppm)	0.90 ppm
(Pb)Lead	0-5 (ppm)	0.01 ppm
Manganese(Mn)	0-5 (ppm)	0.04 ppm
Cobalt(Co)	0-5 (ppm)	0.08 ppm
UV Absorbance 260nm	0-0.03	0.03
Potassium(K)	0-2000 (ppm)	1.92 ppm
UV Absorbance 280nm	0-0.025	0.03
Sodium(Na)	0-3000 (ppm)	0.51 ppm
Cadmium(Cd)	0-5 (ppm)	2.99 ppm
Total Nitrogen	0-0.0002 (%)	0.00 %
Chromium(Cr)	0-5 (ppm)	0.90 ppm

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Parameter	Limit Values	Result
Calcium(Ca)	0-50 (ppm)	5.10 ppm
Purity(Titration by AgNO3)	98.5-101.5 (%)	101.46 %
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
λ ,1 M in H2O	Pass	Pass

John Su
QA & QC Manager