

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-13 10:16:25

Date of Next Testing: 2027-09-03 10:16:25

Product Name: **Magnesium chloride hexahydrate**

CAS Number: 7791-18-6

Specifications & Purity: Suitable for molecular biology, ≥99%(T)

Lot #: I2503796

SKU #: **M116336**

Version: **1**

Analysis #: **561127**

Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	0.26200 ppm
Iron(Fe)	0-5 (ppm)	0.02400 ppm
Nickel(Ni)	0-5 (ppm)	0.10500 ppm
Bismuth(Bi)	0-5 (ppm)	0.00200 ppm
pH	5-7.5	6.52800
Molybdenum(Mo)	0-5 (ppm)	0.41500 ppm
Strontium(Sr)	0-5 (ppm)	0.03000 ppm
Sulfate(SO42-)	0-50 (ppm)	1.52500 ppm
Copper(Cu)	0-5 (ppm)	0.21580 ppm
(As)Arsenic	0-0.1 (ppm)	0.00100 ppm
Phosphate(PO4)	0-5 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.02140 ppm
Barium(Ba)	0-5 (ppm)	0.58200 ppm
Aluminum(Al)	0-5 (ppm)	0.15900 ppm
(Pb)Lead	0-5 (ppm)	0.00200 ppm
Manganese(Mn)	0-5 (ppm)	0.10500 ppm
Cobalt(Co)	0-5 (ppm)	0.02400 ppm
UV Absorbance 260nm	0-0.03	0.01400
Potassium(K)	0-2000 (ppm)	0.52800 ppm
UV Absorbance 280nm	0-0.025	0.01000
Sodium(Na)	0-3000 (ppm)	0.72500 ppm
Cadmium(Cd)	0-5 (ppm)	0.01500 ppm
Total Nitrogen	0-0.0002 (%)	0.00000 %
Chromium(Cr)	0-5 (ppm)	0.10500 ppm
Calcium(Ca)	0-50 (ppm)	0.52300 ppm

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Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	98.5-101.5 (%)	99.08000 %
Water by Karl Fischer	51.5-53.5 (%)	51.51000 %
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 H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,1 M in H ₂ O	Pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager