

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-11 17:26:31  
 Date of Next Testing: 2025-02-28 17:26:31  
 Product Name: **Magnesium chloride hexahydrate**  
 CAS Number: 7791-18-6  
 Specifications & Purity: for Molecular Biology, ≥99.0%(T)  
 Lot #: C2304736  
 SKU #: **M116336**  
**Analysis: 189042**  
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	1.06 ppm
Iron(Fe)	0-5 (ppm)	0.32 ppm
Nickel(Ni)	0-5 (ppm)	0.26 ppm
Bismuth(Bi)	0-5 (ppm)	1.05 ppm
PH	5-7.5	6.82
Molybdenum(Mo)	0-5 (ppm)	1.15 ppm
Strontium(Sr)	0-5 (ppm)	0.78 ppm
Sulfate(SO42-)	0-50 (ppm)	3.62 ppm
Copper(Cu)	0-5 (ppm)	2.04 ppm
(As)Arsenic	0-0.1 (ppm)	0.05 ppm
Phosphate(PO4)	0-5 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	1.28 ppm
Barium(Ba)	0-5 (ppm)	0.81 ppm
Aluminum(Al)	0-5 (ppm)	2.31 ppm
(Pb)Lead	0-5 (ppm)	0.68 ppm
Manganese(Mn)	0-5 (ppm)	1.10 ppm
Cobalt(Co)	0-5 (ppm)	2.16 ppm
Potassium(K)	0-2000 (ppm)	5.51 ppm
Sodium(Na)	0-3000 (ppm)	12.62 ppm
Cadmium(Cd)	0-5 (ppm)	1.25 ppm
Total Nitrogen	0-0.0002 (%)	0.00 %
Chromium(Cr)	0-5 (ppm)	1.48 ppm
Calcium(Ca)	0-50 (ppm)	3.48 ppm
Purity(Titration by AgNO3)	98.5-101.5 (%)	100.69 %
Water by Karl Fischer	51.5-53.5 (%)	53.49 %
UV Absorbance 260nm	0-0.03	0.00

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Parameter	Limit Values	Result
UV Absorbance 280nm	0-0.025	0.00
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 <sub>2</sub> O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,1 M in H <sub>2</sub> O	Pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager