

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-03-11 14:12:00  
 Date of Next Testing: 2024-02-29 14:12:00  
 Product Name: **Magnesium chloride hexahydrate**  
 CAS Number: 7791-18-6  
 Specifications & Purity: for Molecular Biology, ≥99.0%(T)  
 Lot #: C2209222  
 SKU #: **M116336**  
**Analysis:** **081976**  
 Storage Temperature: Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	2.10 ppm
Iron(Fe)	0-5 (ppm)	1.60 ppm
Nickel(Ni)	0-5 (ppm)	1.50 ppm
Bismuth(Bi)	0-5 (ppm)	1.90 ppm
PH	5-7.5	6.50
Molybdenum(Mo)	0-5 (ppm)	3.10 ppm
Strontium(Sr)	0-5 (ppm)	2.30 ppm
Sulfate(SO42-)	0-50 (ppm)	29.00 ppm
Copper(Cu)	0-5 (ppm)	1.80 ppm
(As)Arsenic	0-0.1 (ppm)	0.04 ppm
Phosphate(PO4)	0-5 (ppm)	2.50 ppm
Lithium(Li)	0-5 (ppm)	2.10 ppm
Barium(Ba)	0-5 (ppm)	2.40 ppm
Water by Karl Fischer	51.5-53.5 (%)	51.71 %
Aluminum(Al)	0-5 (ppm)	2.50 ppm
(Pb)Lead	0-5 (ppm)	2.60 ppm
Manganese(Mn)	0-5 (ppm)	2.90 ppm
Cobalt(Co)	0-5 (ppm)	2.60 ppm
UV Absorbance 260nm	0-0.03	0.02
Potassium(K)	0-2000 (ppm)	500.00 ppm
UV Absorbance 280nm	0-0.025	0.01
Sodium(Na)	0-3000 (ppm)	1200.00 ppm
Cadmium(Cd)	0-5 (ppm)	1.80 ppm
Total Nitrogen	0-0.0002 (%)	0.00 %
Chromium(Cr)	0-5 (ppm)	2.60 ppm
Calcium(Ca)	0-50 (ppm)	22.00 ppm

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Parameter	Limit Values	Result
Purity(Titration by AgNO3)	98.5-101.5 (%)	99.50 %
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