

Certificate of Analysis

Date of Testing: 2025-09-13 10:15:15

Date of Next Testing: 2027-09-03 10:15:15

Product Name: **Magnesium chloride hexahydrate**

CAS Number: 7791-18-6

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

Lot #: I2503325

SKU # **M116336**

Version **1**

Analysis #: **561127**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	0.26 ppm
Iron(Fe)	0-5 (ppm)	0.02 ppm
Nickel(Ni)	0-5 (ppm)	0.10 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
PH	5-7.5	6.53
Molybdenum(Mo)	0-5 (ppm)	0.41 ppm
Strontium(Sr)	0-5 (ppm)	0.03 ppm
Sulfate(SO42-)	0-50 (ppm)	1.52 ppm
Copper(Cu)	0-5 (ppm)	0.22 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
Phospate(PO4)	0-5 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.02 ppm
Barium(Ba)	0-5 (ppm)	0.58 ppm
Aluminum(Al)	0-5 (ppm)	0.16 ppm
(Pb)Lead	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.10 ppm
Cobalt(Co)	0-5 (ppm)	0.02 ppm
UV Absorbance 260nm	0-0.03	0.01
Potassium(K)	0-2000 (ppm)	0.53 ppm
UV Absorbance 280nm	0-0.025	0.01
Sodium(Na)	0-3000 (ppm)	0.72 ppm
Cadmium(Cd)	0-5 (ppm)	0.01 ppm
Total Nitrogen	0-0.0002 (%)	0.00 %
Chromium(Cr)	0-5 (ppm)	0.10 ppm
Calcium(Ca)	0-50 (ppm)	0.52 ppm

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14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	98.5-101.5 (%)	99.08 %
Water by Karl Fischer	51.5-53.5 (%)	51.51 %
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

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager