

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-03 16:22:39
 Date of Next Testing: 2028-07-02 16:22:39
 Product Name: **Magnesium chloride solution**
 CAS Number: 7786-30-3
 Specifications & Purity: UltraBio™, Suitable for molecular biology, Ultra pure, ~1 M in H₂O
 Lot #: F2530185
 SKU #: **M434103**
 Version: **5**
 Analysis #: **530165**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Aluminium(Al)	0-1 (ppm)	0.00000 ppm
Barium(Ba)	0-1 (ppm)	0.00000 ppm
Bismuth(Bi)	0-1 (ppm)	0.00000 ppm
Cadmium(Cd)	0-1 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	2.00000 ppm
Chromium(Cr)	0-1 (ppm)	0.00000 ppm
Cobalt(Co)	0-1 (ppm)	0.00000 ppm
Copper(Cu)	0-1 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	12.00000 ppm
Iron(Fe)	0-1 (ppm)	0.00000 ppm
Lithium(Li)	0-1 (ppm)	0.00000 ppm
Manganese(Mn)	0-1 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-1 (ppm)	0.00000 ppm
Sodium(Na)	0-500 (ppm)	15.00000 ppm
Nickel(Ni)	0-1 (ppm)	0.00000 ppm
Lead(Pb)	0-1 (ppm)	0.00000 ppm
Strontium(Sr)	0-1 (ppm)	0.00000 ppm
Zinc(Zn)	0-1 (ppm)	0.00000 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	0.00000 ppm
Uv-Abs. At 260 nm	0-0.05	0.01500
UV-ABS.at 280 nm	0-0.03	0.00900
Concentration(Titration)	0.97-1.03 (mol/L)	1.00000 mol/L
Density(D ₂₀ /4°C)	1.07-1.085	1.07200
pH	5.0-7.5	6.40000



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Parameter	Limit Values	Result
Total Nitrogen	0-2 (ppm)	2.00000 ppm
Phosphate(PO ₄)	0-10 (ppm)	0.00000 ppm
Appearance(M434103)	Colorless Liquid	Colorless liquid
Residue (filter test)	no residue	no residue
Dnases, Rnases, Proteases, Phosphatases	None Detected	none detected

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager