

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2025-07-02 15:48:02
Date of Next Testing:	2028-07-01 15:48:02
Product Name:	<b>Magnesium chloride solution</b>
CAS Number:	7786-30-3
Specifications & Purity:	UltraBio™, Ultra pure, Suitable for molecular biology, ~1 M in H2O
Lot #:	F2530186
SKU #	<b>M434103</b>
Version	<b>5</b>
<b>Analysis #:</b>	<b>530161</b>

Parameter	Limit Values	Result
Aluminium(Al)	0-1 (ppm)	0.00000 ppm
Barium(Ba)	0-1 (ppm)	0.00 ppm
Bismuth(Bi)	0-1 (ppm)	0.00 ppm
Cadmium(Cd)	0-1 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Chromium(Cr)	0-1 (ppm)	0.00 ppm
Cobalt(Co)	0-1 (ppm)	0.00 ppm
Copper(Cu)	0-1 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Iron(Fe)	0-1 (ppm)	0.00 ppm
Lithium(Li)	0-1 (ppm)	0.00 ppm
Manganese(Mn)	0-1 (ppm)	0.00 ppm
Molybdenum(Mo)	0-1 (ppm)	0.00 ppm
Sodium(Na)	0-500 (ppm)	0.00 ppm
Nickel(Ni)	0-1 (ppm)	0.00 ppm
Lead(Pb)	0-1 (ppm)	0.00 ppm
Strontium(Sr)	0-1 (ppm)	0.00 ppm
Zinc(Zn)	0-1 (ppm)	0.00 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	0.00 ppm
Concentration(Titration)	0.97-1.03 (mol/L)	1.00 mol/L
Density(D20/4°C)	1.07-1.085	1.07
PH	5.0-7.5	6.57
Uv-Abs. At 260 nm	0-0.05	0.01400
UV-ABS.at 280 nm	0-0.03	0.00900
Total Nitrogen	0-2 (ppm)	2.00 ppm

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Parameter	Limit Values	Result
Phosphate(PO4)	0-10 (ppm)	0.00 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".

John Su  
QA & QC Manager