

Certificate of Analysis

Date of Testing: 2024-10-29 08:56:00

Date of Next Testing: 2027-10-29 08:56:00

Product Name: **Magnesium chloride hexahydrate**

CAS Number: 7791-18-6

Specifications & Purity: UltraBio™, Ultra pure, BioReagent, for molecular biology, ≥99%(KT)

Lot #: J2414278

SKU #: **M434167**

Version: **1**

Analysis #: **427984**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Assay(Complexometric EDTA)	99-101 (%)	100.75 %
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-50 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-2000 (ppm)	46.48 ppm
Lithium(Li)	0-5 (ppm)	0.24 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-3000 (ppm)	71.77 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Phosphate(PO4)	0-5 (ppm)	0.00000 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	0.00 ppm
Total Nitrogen	0-2 (ppm)	0.00 ppm
Ph(25°C,1 M in H2O)	5-7.5	5.28100
UV Absorbance 260nm(at 1M in H2O)	0-0.03	0.01

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Parameter	Limit Values	Result
UV Absorbance 280nm(at 1M in H ₂ O)	0-0.025	0.00
Appearance(M434167)	fine crystals to crystals with lumps and/or deliquescent crystals	fine crystals to crystals with lumps and/or deliquescent crystals
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
extraneous activities DNAses, RNAses, Proteases, Phosphatases	Not Detectable	not detectable
Solubility(method) 1M in H ₂ O,clear colorless	Pass	Pass
Residue(filter test,No residue)	Pass	Pass

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