

## Certificate of Analysis

Date of Testing: 2022-09-06 12:17:02  
Date of Next Testing: 2026-09-05 12:17:02  
Product Name: **Magnesium chloride hexahydrate**  
CAS Number: 7791-18-6  
Specifications & Purity: ACS,99.0-102.0%  
Lot #: I2201733  
SKU #: **M116333**  
**Analysis:** **151477**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Calcium(Ca)	0-0.01 (%)	0.00 %
Water by Karl Fischer	51.5-53.5 (%)	51.74 %
Strontium(Sr)	0-0.005 (%)	0.00 %
Assay	99-102 (%)	100.00 %
Manganese(Mn)	0-5 (ppm)	2.10 ppm
Potassium(K)	0-0.005 (%)	0.00 %
Sodium(Na)	0-0.005 (%)	0.00 %
Heavy metal (as Pb)	0-5 (ppm)	1.90 ppm
(NO <sub>3</sub> )Nitrate	0-0.001 (%)	0.00 %
Ammonia (NH <sub>4</sub> )	0-0.002 (%)	0.00 %
Iron(Fe)	0-5 (ppm)	2.30 ppm
Phosphate(PO <sub>4</sub> )	0-5 (ppm)	3.40 ppm
Insoluble matter in H <sub>2</sub> O	0-0.005 (%)	0.00 %
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.002 (%)	0.00 %
Barium(Ba)	0-0.005 (%)	0.00 %
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

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

John Su  
QA & QC Manager