

## Certificate of Analysis

Date of Testing: 2023-10-19 17:15:52  
Date of Next Testing: 2025-10-18 17:15:52  
Product Name: **Aluminum chloride hexahydrate**  
CAS Number: 7784-13-6  
Specifications & Purity: Analytical Reagent,97.0%  
Lot #: J2313035  
SKU #: **A112509**  
**Analysis: 287632**

Parameter	Limit Values	Result
Copper(Cu)	0-50 (ppm)	23.14 ppm
Assay	99-100 (%)	100.00 %
Zinc(Zn)	0-50 (ppm)	26.00 ppm
Iron(Fe)	0-50 (ppm)	19.71 ppm
Potassium(K)	0-100 (ppm)	52.00 ppm
Sodium(Na)	0-500 (ppm)	200.00 ppm
Nickel(Ni)	0-50 (ppm)	28.30 ppm
Calcium(Ca)	0-100 (%)	50.00 %
Cadmium(Cd)	0-50 (ppm)	25.20 ppm
Cl(Titration by AgNO3)	43.4-44.7 (%)	44.61 %
Sulfate(SO42-)	0-50 (ppm)	20.00 ppm
(Pb)Lead	0-50 (ppm)	3.85 ppm
Cobalt(Co)	0-50 (ppm)	20.70 ppm
PH(25 °C, 50 mg/mL in Water)	2.5-3.5 (%)	3.00 %
Appearance (A112509)	White to Off-White Crystals	White to Off-White Crystals
ICP Major Analysis	Confirmed to structure	Confirmed to structure
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