

Certificate of Analysis

Date of Testing: 2023-01-13 10:55:27
 Date of Next Testing: 2025-01-12 10:55:27
 Product Name: **Aluminum chloride hexahydrate**
 CAS Number: 7784-13-6
 Specifications & Purity: Analytical Reagent,97.0%
 Lot #: A2310112
 SKU #: **A112509**
Analysis: 178652

| Parameter | Limit Values | Result |
|------------------------------|-----------------------------|-----------------------------|
| Copper(Cu) | 0-50 (ppm) | 25.20 ppm |
| Assay | 99-100 (%) | 99.39 % |
| Zinc(Zn) | 0-50 (ppm) | 20.50 ppm |
| Iron(Fe) | 0-50 (ppm) | 25.00 ppm |
| Potassium(K) | 0-100 (ppm) | 50.00 ppm |
| Sodium(Na) | 0-500 (ppm) | 250.00 ppm |
| Nickel(Ni) | 0-50 (ppm) | 29.16 ppm |
| Calcium(Ca) | 0-100 (%) | 50.00 % |
| Cadmium(Cd) | 0-50 (ppm) | 25.03 ppm |
| Cl(Titration by AgNO3) | 43.4-44.7 (%) | 44.43 % |
| Sulfate(SO42-) | 0-50 (ppm) | 17.64 ppm |
| (Pb)Lead | 0-50 (ppm) | 20.93 ppm |
| Cobalt(Co) | 0-50 (ppm) | 25.20 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