

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-05-05 14:03:36  
 Date of Next Testing: 2028-05-04 14:03:36  
 Product Name: **Iron(III) chloride hexahydrate**  
 CAS Number: 10025-77-1  
 Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure  
 Lot #: D2528009  
 SKU #: **I431123**  
 Version: **1**  
 Analysis #: **269334**  
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged, Desiccated

| Parameter                                               | Limit Values                           | Result                                 |
|---------------------------------------------------------|----------------------------------------|----------------------------------------|
| Assay(Iodometric, FeCl <sub>3</sub> ·6H <sub>2</sub> O) | 99-102 (%)                             | 100.39000 %                            |
| Insoluble matter                                        | 0-0.01 (%)                             | 0.00000 %                              |
| Nitrate(NO <sub>3</sub> )                               | 0-0.01 (%)                             | 0.00000 %                              |
| Sulfate(SO <sub>4</sub> )                               | 0-0.01 (%)                             | 0.01000 %                              |
| Total phosphorus(as PO <sub>4</sub> )                   | 0-0.01 (%)                             | 0.01000 %                              |
| Heavy metals(as Pb)                                     | 0-0.005 (%)                            | 0.00000 %                              |
| Calcium(Ca)                                             | 0-0.01 (%)                             | 0.00110 %                              |
| Copper(Cu)                                              | 0-0.003 (%)                            | 0.00000 %                              |
| Ferrous(Fe <sup>2+</sup> )                              | 0-0.002 (%)                            | 0.00200 %                              |
| Potassium(K)                                            | 0-0.005 (%)                            | 0.00290 %                              |
| Magnesium(Mg)                                           | 0-0.005 (%)                            | 0.00020 %                              |
| Sodium(Na)                                              | 0-0.05 (%)                             | 0.00270 %                              |
| Zinc(Zn)                                                | 0-0.003 (%)                            | 0.00000 %                              |
| Total Nitrogen                                          | 0-0.001 (%)                            | 0.00090 %                              |
| Appearance(I431123)                                     | Yellow to Yellow-Orange/Brown Chunk(s) | Yellow to Yellow-Orange/Brown Chunk(s) |
| X-Ray Diffraction                                       | Conforms to Structure                  | Conforms to Structure                  |
| Free chlorine                                           | passes test                            | Passes test                            |
| Acidic substances                                       | passes test                            | Passes test                            |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager