

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-05-28 18:34:50  
 Date of Next Testing: 2029-05-27 18:34:50  
 Product Name: **Iron chloride hexahydrate**  
 CAS Number: 10025-77-1  
 Specifications & Purity: Premium-Grade Reagents, ≥99%  
 Lot #: E2521342  
 SKU #: **F102739**  
 Version: **3**  
 Analysis #: **512957**  
 Storage Temperature: Store at 2-8°C, Argon charged, Desiccated

| Parameter                               | Limit Values                                                                  | Result                                                                        |
|-----------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| free acid (as HCl)                      | 0-0.1 (%)                                                                     | 0.10000 %                                                                     |
| Insoluble matter in H <sub>2</sub> O    | 0-0.01 (%)                                                                    | 0.00000 %                                                                     |
| Magnesium(Mg)                           | 0-0.002 (%)                                                                   | 0.00000 %                                                                     |
| Sodium(Na)                              | 0-0.02 (%)                                                                    | 0.00900 %                                                                     |
| Copper(Cu)                              | 0-0.005 (%)                                                                   | 0.00000 %                                                                     |
| (NO <sub>3</sub> )Nitrate               | 0-0.01 (%)                                                                    | 0.00000 %                                                                     |
| Calcium(Ca)                             | 0-0.005 (%)                                                                   | 0.00000 %                                                                     |
| Purity                                  | 99-100 (%)                                                                    | 99.93690 %                                                                    |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> ) | 0-0.01 (%)                                                                    | 0.00000 %                                                                     |
| Zinc(Zn)                                | 0-0.003 (%)                                                                   | 0.00000 %                                                                     |
| (As)Arsenic                             | 0-0.002 (%)                                                                   | 0.00090 %                                                                     |
| Manganese(Mn)                           | 0-0.02 (%)                                                                    | 0.01070 %                                                                     |
| (PO <sub>4</sub> )Phosphate             | 0-0.1 (%)                                                                     | 0.00000 %                                                                     |
| Ferrous(Fe <sup>2+</sup> )              | 0-0.002 (%)                                                                   | 0.00200 %                                                                     |
| Potassium(K)                            | 0-0.002 (%)                                                                   | 0.00200 %                                                                     |
| Appearance (F102739)                    | Yellow to Yellow-Orange, brown powder, crystal, chunk or Reddish-brown liquid | Yellow to Yellow-Orange, brown powder, crystal, chunk or Reddish-brown liquid |
| X-Ray Diffraction                       | Conforms to Structure                                                         | Conforms to Structure                                                         |



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

John Su  
QA & QC Manager