

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-05-23 09:14:51  
 Date of Next Testing: 2028-05-22 09:14:51  
 Product Name: **Iron(II) sulfate heptahydrate**  
 CAS Number: 7782-63-0  
 Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure  
 Lot #: E2520102  
 SKU #: **I434044**  
 Version: **1**  
 Analysis #: **204383**  
 Storage Temperature: Room temperature

| Parameter                                        | Limit Values                     | Result                           |
|--------------------------------------------------|----------------------------------|----------------------------------|
| Assay(manganometric)                             | 99.5-102 (%)                     | 100.65000 %                      |
| Insoluble matter                                 | 0-0.01 (%)                       | 0.00000 %                        |
| (PO4)Phosphate                                   | 0-0.001 (%)                      | 0.00000 %                        |
| Total nitrogen(N)                                | 0-0.001 (%)                      | 0.00070 %                        |
| Heavy metals(as Pb)                              | 0-0.005 (%)                      | 0.00000 %                        |
| Arsenic(As)                                      | 0-0.0002 (%)                     | 0.00000 %                        |
| Calcium(Ca)                                      | 0-0.005 (%)                      | 0.00000 %                        |
| Chromium(Cr)                                     | 0-0.005 (%)                      | 0.00000 %                        |
| Cobalt(Co)                                       | 0-0.0025 (%)                     | 0.00000 %                        |
| Copper(Cu)                                       | 0-0.001 (%)                      | 0.00000 %                        |
| Potassium(K)                                     | 0-0.002 (%)                      | 0.00080 %                        |
| Magnesium(Mg)                                    | 0-0.002 (%)                      | 0.00000 %                        |
| Manganese(Mn)                                    | 0-0.05 (%)                       | 0.01640 %                        |
| Sodium(Na)                                       | 0-0.02 (%)                       | 0.00060 %                        |
| Nickel(Ni)                                       | 0-0.005 (%)                      | 0.00000 %                        |
| Lead(Pb)                                         | 0-0.0005 (%)                     | 0.00000 %                        |
| Zinc(Zn)                                         | 0-0.005 (%)                      | 0.00000 %                        |
| pH-value (5 %; water)                            | 3.0-4.0                          | 4.00000                          |
| Chloride                                         | 0-0.0005 (%)                     | 0.00000 %                        |
| Iron(Fe)                                         | 0-0.02 (%)                       | 0.01000 %                        |
| Substance not precipitated by ammonium hydroxide | 0-0.1 (%)                        | 0.01000 %                        |
| Appearance(I434044)                              | blue to green powder or crystals | blue to green powder or crystals |
| Appearance of solution                           | Conforms                         | Conforms                         |
| 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