

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |   |
|--------------------------|---|
| Date of Testing:         | 2023-05-11 15:19:21   |
| Date of Next Testing:    | 2026-05-10 15:19:21   |
| Product Name:            | <b>Iron(II) sulfate heptahydrate</b>                        |
| CAS Number:              | 7782-63-0   |
| Specifications & Purity: | Premium-Grade Reagents , for Analysis, ACS,ISO,Reag. Ph Eur |
| Lot #:                   | D2324869  |
| SKU #                    | <b>I434044</b>  |
| Version                  | <b>1</b>  |
| <b>Analysis #:</b>       | <b>204383</b>   |
| Storage Temperature:     | Room temperature  |

| Parameter  | Limit Values                     | Result                           |
|--|----------------------------------|----------------------------------|
| Assay(manganometric)                             | 99.5-102 (%)                     | 100.65000 %                      |
| Insoluble matter                                 | 0-0.01 (%)                       | 0.00 %                           |
| (PO4)Phosphate                                   | 0-0.001 (%)                      | 0.00 %                           |
| Total nitrogen(N)                                | 0-0.001 (%)                      | 0.00070 %                        |
| Heavy metals(as Pb)                              | 0-0.005 (%)                      | 0.00 %                           |
| Arsenic(As)                                      | 0-0.0002 (%)                     | 0.00000 %                        |
| Calcium(Ca)                                      | 0-0.005 (%)                      | 0.00 %                           |
| Chromium(Cr)                                     | 0-0.005 (%)                      | 0.00000 %                        |
| Cobalt(Co)                                       | 0-0.0025 (%)                     | 0.00 %                           |
| Copper(Cu)                                       | 0-0.001 (%)                      | 0.00 %                           |
| Potassium(K)                                     | 0-0.002 (%)                      | 0.00 %                           |
| Magnesium(Mg)                                    | 0-0.002 (%)                      | 0.00 %                           |
| Manganese(Mn)                                    | 0-0.05 (%)                       | 0.02 %                           |
| Sodium(Na)                                       | 0-0.02 (%)                       | 0.00 %                           |
| Nickel(Ni)                                       | 0-0.005 (%)                      | 0.00 %                           |
| Lead(Pb)   | 0-0.0005 (%)                     | 0.00 %                           |
| Zinc(Zn)   | 0-0.005 (%)                      | 0.00 %                           |
| pH-value (5 %; water)                            | 3.0-4.0                          | 4.00000                          |
| Chloride   | 0-0.0005 (%)                     | 0.00 %                           |
| Iron(Fe)   | 0-0.02 (%)                       | 0.01 %                           |
| 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