

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|---|
| Date of Testing: | 2023-12-13 09:40:17 |
| Date of Next Testing: | 2026-12-12 09:40:17 |
| Product Name: | Iron(II) sulfate heptahydrate |
| CAS Number: | 7782-63-0 |
| Specifications & Purity: | Premium-Grade Reagents , for Analysis, ACS,ISO,Reag. Ph Eur |
| Lot #: | L2311253 |
| 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 (%) | 0.00 % |
| (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". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager