

## Certificate of Analysis

Date of Testing: 2024-09-19 12:18:22

Date of Next Testing: 2028-09-18 12:18:22

Product Name: **Iron nitrate nonahydrate**

CAS Number: 7782-61-8

Specifications & Purity: reagent grade

Lot #: I2411349

SKU # **F100208**

Version **0**

Analysis #: **412828**

Storage Temperature: Argon charged

| Parameter                                                              | Limit Values              | Result                    |
|------------------------------------------------------------------------|---------------------------|---------------------------|
| Chloride (Cl-)                                                         | 0-5 (ppm)                 | 0.21 ppm                  |
| Free acid(HNO3)                                                        | 0-0.3 (%)                 | 0.01 %                    |
| Copper(Cu)                                                             | 0-50 (ppm)                | 5.80 ppm                  |
| Zinc(Zn)                                                               | 0-10 (ppm)                | 0.69 ppm                  |
| Lead(Pb)                                                               | 0-10 (ppm)                | 0.17 ppm                  |
| Purity Titration by EDTA                                               | 98-102 (%)                | 100.00 %                  |
| Calcium(Ca)                                                            | 0-50 (ppm)                | 15.20 ppm                 |
| Manganese(Mn)                                                          | 0-0.02 (%)                | 0.00 %                    |
| Sodium(Na)                                                             | 0-50 (ppm)                | 3.60 ppm                  |
| Sulfate(SO42-)                                                         | 0-50 (ppm)                | 2.50 ppm                  |
| (As)Arsenic                                                            | 0-0.5 (ppm)               | 0.00 ppm                  |
| Potassium(K)                                                           | 0-50 (ppm)                | 15.80 ppm                 |
| Appearance (F100208)                                                   | purple powder or crystals | purple powder or crystals |
| Solubility in H2O , clear yellow to orange solution at 100 mg/ml water | pass                      | Pass                      |
| 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