

## Certificate of Analysis

Date of Testing: 2024-12-19 16:02:12

Date of Next Testing: 2028-12-18 16:02:12

Product Name: **Iron nitrate nonahydrate**

CAS Number: 7782-61-8

Specifications & Purity: AR

Lot #: L2416164

SKU #: **F100208**

Version: **0**

Analysis #: **449086**

Storage Temperature: Argon charged

| Parameter                                                              | Limit Values              | Result                    |
|------------------------------------------------------------------------|---------------------------|---------------------------|
| Chloride (Cl-)                                                         | 0-5 (ppm)                 | 2.50 ppm                  |
| Free acid(HNO3)                                                        | 0-0.3 (%)                 | 0.13 %                    |
| Copper(Cu)                                                             | 0-50 (ppm)                | 19.00 ppm                 |
| Zinc(Zn)                                                               | 0-10 (ppm)                | 3.60 ppm                  |
| Lead(Pb)                                                               | 0-10 (ppm)                | 2.80 ppm                  |
| Purity Titration by EDTA                                               | 98-102 (%)                | 99.99 %                   |
| Calcium(Ca)                                                            | 0-50 (ppm)                | 25.00 ppm                 |
| Manganese(Mn)                                                          | 0-0.02 (%)                | 0.01 %                    |
| Sodium(Na)                                                             | 0-50 (ppm)                | 26.00 ppm                 |
| Sulfate(SO42-)                                                         | 0-50 (ppm)                | 17.00 ppm                 |
| (As)Arsenic                                                            | 0-0.5 (ppm)               | 0.30 ppm                  |
| Potassium(K)                                                           | 0-50 (ppm)                | 28.00 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     |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is fluid and cursive, with the first letters of each name being capitalized.

John Su  
QA & QC Manager