

TIQ-F-QC-001 Rev.00

## Certificate Of Analysis

Product Name : Ferrous Sulphate Heptahydrate 99 % AR

Catalog Number : O-5090

Batch Number : 5090-00000000

CAS Number : 7782-63-0

Molecular Weight : 278.01 g/mol

Mol. Formula :  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ 

Expire Date : 36 months

SAMPLE

| No | Test                        | Specifications                                                   | Results                  |
|----|-----------------------------|------------------------------------------------------------------|--------------------------|
| 1  | Appearance                  | Light blue or blue-green or green crystalline powder or crystals | Green crystalline powder |
| 2  | Assay (Redox-titration)     | min 99.0 %                                                       | 100.92%                  |
| 3  | Ferric ion (Fe)             | max 0.1 %                                                        | 0.0012%                  |
| 4  | Copper (Cu)                 | max 0.005 %                                                      | 0.0015%                  |
| 5  | Insoluble matter            | max 0.01 %                                                       | 0.0057%                  |
| 6  | pH (5% solution in water)   | 3.0 - 4.0                                                        | 3.29                     |
| 7  | Chloride (Cl)               | max 0.001 %                                                      | 0.00079%                 |
| 8  | Phosphate ( $\text{PO}_4$ ) | max 0.001 %                                                      | 0.00032%                 |
| 9  | Manganese (Mn)              | max 0.05 %                                                       | 0.0094%                  |
| 10 | Zinc (Zn)                   | max 0.005 %                                                      | 0.00045%                 |
| 11 | Calcium (Ca)                | max 0.005 %                                                      | 0.00011%                 |
| 12 | Magnesium (Mg)              | max 0.002 %                                                      | 0.00072%                 |
| 13 | Potassium (K)               | max 0.002 %                                                      | 0.00033%                 |
| 14 | Sodium (Na)                 | max 0.02 %                                                       | 0.0063%                  |

Corresponds to AR/ACS Grade

**LABOTIQ** In-house product specification, referenced to Analar standard and ACS specificationSUDIRO S.Si.  
Manager QC