

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

Product Iron(II) sulfate heptahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

Batch 19341702

HI0351

Quality release date 12/11/2018

Expiry date 11/2020

Analysis	Batch value	Specifications
Assay (Permanganometric)	101,46 %	≥ 99,5
Identity	passes test	passes test
Appearance of solution	passes test	passes test
Insoluble in water	< 0,01 %	≤ 0,01
pH (5 %, H ₂ O)	3,24	3,0 - 4,0
Chlorides (Cl)	< 0,0005 %	≤ 0,0005
Phosphates (as PO ₄)	< 0,001 %	≤ 0,001
Total nitrogen (as N)	< 0,001 %	≤ 0,001
Arsenic (As)	< 0,0002 %	≤ 0,0002
Calcium (Ca)	< 0,005 %	≤ 0,005
Copper (Cu)	< 0,001 %	≤ 0,001
Heavy metals (as Pb)	< 0,005 %	≤ 0,005
Iron (III) (Fe (III))	0,011 %	≤ 0,02
Lead (Pb)	< 0,0005 %	≤ 0,0005
Magnesium (Mg)	< 0,002 %	≤ 0,002
Manganese (Mn)	< 0,05 %	≤ 0,05
Potassium (K)	< 0,002 %	≤ 0,002
Sodium (Na)	< 0,02 %	≤ 0,02
Zinc (Zn)	< 0,0050 %	≤ 0,005
Substances not precipitated by ammonium hydroxide	< 0,05 %	≤ 0,05

Storage and use

Due to inherent oxidation of ferric ion (Fe³⁺), the Ferrous sulfate heptahydrate is oxidized in moist air becoming brown and the ferric ion content may increase on storage. Keep tightly closed and protect from moisture.

The product should not be used if it is coated with brownish yellow basic ferric sulfate.