

Table 1
Redox potentials of various redox couples relevant to iron metabolism
at pH 7.0 and 25°C^a

System	E_0' (mV)	Reference
[Fe(CN) ₆] ³⁺ /[Fe(CN) ₆] ⁴⁺	+430	[39]
Fe(III) NTA/Fe(II) NTA ^b	+385	[3]
Fe(III) citrate/Fe(II) citrate	+372	[3]
Fe(III) EDTA/Fe(II) EDTA	+96	[40]
Ferrihydrite/Fe ²⁺	-100 to +100	[3,12,41]
γ -FeOOH (lepidocrocite)/Fe ²⁺	-88	[3]
AQDS/AHQDS ^c	-184	[42]
Humic substances ^d	-200 to +300	A. Kappler, personal communication
α -FeOOH (goethite)/Fe ²⁺	-274	[3]
α -Fe ₂ O ₃ (hematite)/Fe ²⁺	-287	[3]
Fe ₃ O ₄ (magnetite)/Fe ²⁺	-314	[3]

^aRedox potentials depend strongly on pH value, temperature, concentration of reactants, and thermodynamic data chosen for calculations. For details see related references.

^bNitrilotriacetate.

^c2,6-Anthraquinone disulfonate, 2,6-anthrahydroquinone disulfonate.

^dHumic substances are complex organic polymers with redox-active moieties (esp. quinones) reduced or oxidized in the given range.