

Table 1

Sample	Hematite	Goethite	Magnetite	Ferrihydrite	V1	M1	TB
<b>hydroxylapatite</b> ( $\text{Ca}_5(\text{PO}_4)_3(\text{OH})$ )						16%	11%
<b>magnetite</b> ( $\text{Fe}^{2+}\text{Fe}^{3+}_2\text{O}_4$ )			100%		19%	79%	89%
<b>horblende</b> ( $\text{Ca}_2(\text{Mg, Fe, Al})_5(\text{Al, Si})_8\text{O}_{22}(\text{OH})_2$ )					41%		
<b>hematite</b> ( $\text{Fe}_2\text{O}_3$ , $\alpha\text{-Fe}_2\text{O}_3$ )	100%				40%		
<b>ferro-actinolyte</b> ( $\text{Ca}_2(\text{Mg}_{2.5-0.0}\text{Fe}^{2+}_{2.5-5.0})\text{Si}_8\text{O}_{22}(\text{OH})_2$ )						5%	
<b>goethite</b> ( $\alpha\text{-FeO(OH)}$ )		100%					
<b>ferrihydrite</b> (( $\text{Fe}^{3+}$ ) $_2\text{O}_3\cdot 0.5\text{H}_2\text{O}$ )				100%			

Table 2.

sample	Specific (BET) surface area ( $\text{m}^2 \text{g}^{-1}$ )	$k_{\text{biored-Fe}}$ ( $\mu\text{mol g}_{\text{oxide}}^{-1} \text{d}^{-1}$ )	$k_{\text{biored-Ac}}$ ( $\mu\text{mol g}_{\text{oxide}}^{-1} \text{d}^{-1}$ )	$k_{\text{biored-Fe}}$ ( $\mu\text{mol m}^{-2} \text{d}^{-1}$ )	$k_{\text{biored-Ac}}$ ( $\mu\text{mol m}^{-2} \text{d}^{-1}$ )	$\text{Fe(II)}_{\text{aq}}/\text{acetate}$ ( $k_{\text{-Fe}}/k_{\text{-Ac}}$ ) <sup>*</sup>
<b>Hematite</b>	5.4	0.033	0.61	0.006	0.114	0.0530
<b>Goethite</b>	12.3	0.026	0.95	0.002	0.077	0.0276
<b>Magnetite</b>	6.9	0.232	1.72	0.034	0.249	0.1349
<b>Ferrihydrite</b>	181	5.490	32.03	0.030	0.177	0.1714
<b>V1</b>	1.8	0.316	13.06	0.297	0.59	0.5073
<b>TB</b>	0.6	0.057	0.57	0.080	0.80	0.0995
<b>M1</b>	0.2	0.073	1.26	0.309	5.31	0.0583

\* Bio-reduction stoichiometry is given by the  $\text{Fe(II)}_{\text{aqueous}}/\text{acetate}$  ratio (theoretical value = 4).