

Supporting Information for

Adsorption of potentially toxic metals on negatively charged liposomes: Equilibrium isotherms and quantitatively modelling

Y. Yu^a, X. Liu^{b*}, W. Gong^b, G. Liu^b, D. Cheng^b, H. Bao^a and D. Gao^b

^a College of Chemistry, Beijing Normal University, Beijing, 100875, the People's Republic of China

^b State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, Beijing 100875, the People's Republic of China.

*author for correspondence

Content

Table S1. The species distribution of metals by modelling

Table S1. The species distribution of metal ions by modelling

Species name	% of total concentration	Species name	% of total concentration	Species name	% of total concentration	Species name	% of total concentration	Species name	% of total concentration
Ni									
Ni ²⁺	29.353	Zn ²⁺	15.374	Co ²⁺	24.91	FeHPO ₄ ⁺	1.95	Cr(OH) ₂ ⁺	7.421
NiH ₂ PO ₄ ⁺	0.374	ZnHPO ₄ (aq)	83.99	CoHPO ₄ (aq)	74.978	FeOH ²⁺	0.024	CrOH ²⁺	0.641
NiHPO ₄ (aq)	70.175	ZnOH ⁺	0.334	CoOH ⁺	0.108	Fe(OH) ²⁺	95.468	Cr(OH) ₃ (aq)	91.924
NiOH ⁺	0.08	Zn(OH) ₂ (aq)	0.117			Fe(OH) ₃ (aq)	1.488	Cr(OH) ₄ ⁻	0.011
NiNO ₃ ⁺	0.015	ZnSO ₄ (aq)	0.184			Fe(OH) ₄ ⁻	1.071		
Ni ²⁺	29.353	Zn ²⁺	15.374						
Ba									
Ba ²⁺	69.486	Sr ²⁺	61.412	Cd ²⁺	6.876	Ag ⁺	99.992	Hg(OH) ₂	93.022
BaHPO ₄ (aq)	30.484	SrHPO ₄ (aq)	37.929	CdHPO ₄ (aq)	93.045			HgCl ₂ (aq)	0.102
BaNO ₃ ⁺	0.029	SrH ₂ PO ₄ ⁺	0.625	CdOH ⁺	0.012			HgClOH (aq)	6.874
		SrNO ₃ ⁺	0.033	CdCl ⁺	0.067				

1. The speciation distribution of metals were calculated by Visual-MINTEQ software, version 3.0
2. The highest concentration of metal ions, the corresponding PBS concentration, pH 7.5 and temperature 25°C were used in speciation calculation.