

Appendixes

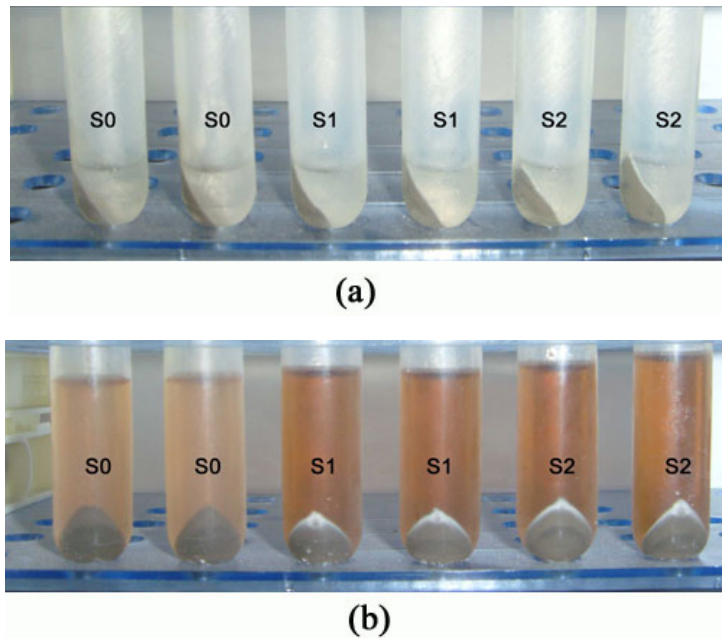


Fig. S1 Sediment samples in reagent solution before and after the pretreatment: (a) after soaking and washing three times with the pretreatment solution S0 / S1 / S2, and (b) after shaking for 15 min at 65°C with the solution S0 / S1 / S2, followed by centrifugation at $12000 \times g$ at 25°C for 5 min

Table S1 Comparison of heavy metal quality contain in sediments before and after pretreatment

element	before pretreatment ^{a)}	after pretreatment ^{a)}
Pb/(mg·kg ⁻¹) ^{b)}	212.01	129.4
Cu/(mg·kg ⁻¹) ^{b)}	1262.29	1101.75
Cr/(mg·kg ⁻¹) ^{b)}	1095.29	461
As/(mg·kg ⁻¹) ^{b)}	25.61	8.35

Notes: a) The pretreatment steps included soaking the sediments in solutions S0 and shaking for 15 min at 65°C and washing for three times; b) Metal quality contain in sediments was detected using Atomic Absorption Spectroscopy by Microbial Test Center in Guangdong Province, China