Supplementary Information

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Designing a Biostable L-DNAzyme for Lead (II) Ion Detection in Practical Samples

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Supplemental figures

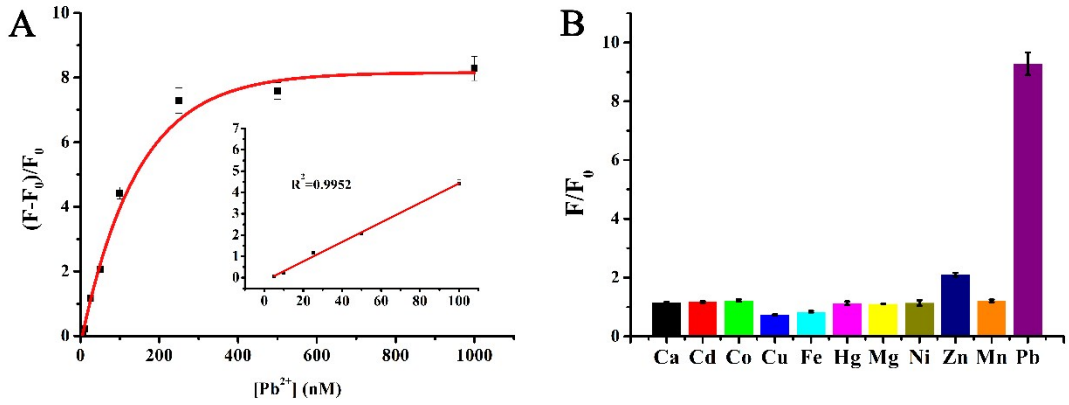

Fig. S1 Response of Pb^{2+}-dependent D-DNAzyme-based sensor to various concentrations (0, 5, 10, 25, 50, 100, 250, 500 and 1000 nM) of Pb^{2+} in buffer (A) and control metal ions (B).

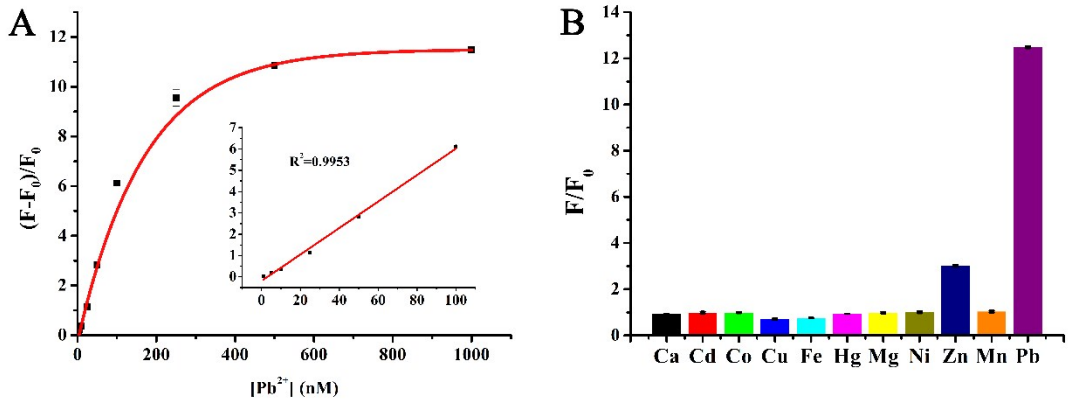

Fig. S2 Response of Pb^{2+}-dependent D-DNAzyme-based sensor to various concentrations (0, 1, 5, 10, 25, 50, 100, 250, 500 and 1000 nM) of Pb^{2+} in real water samples (A) and with control metal ions (B)

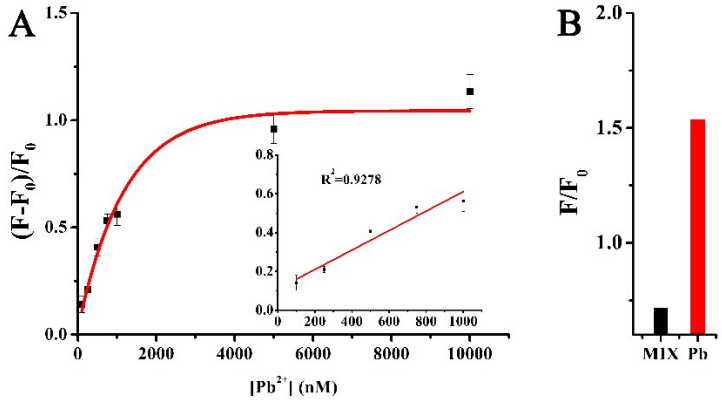

Fig. S3 Response of Pb^{2+}-dependent D-DNAzyme-based sensor to various concentrations (0, 100, 250, 500, 750, 1000, 5000 and 10000 nM) of Pb^{2+} in 5% FBS (A) and mixed control metal ions (B). The sensing system was on exposure to 1 μM Pb^{2+} (red) and the mixture containing 10 μM Ca^{2+}, Cd^{2+}, Co^{2+}, Cu^{2+}, Fe^{2+}, Hg^{2+}, Mg^{2+}, Ni^{2+}, Zn^{2+} and Mn^{2+} (black).