Electronic Supplementary Material

Molecular imprinting based on phosphorescent resonance energy transfer for malachite green detection in fishes and water

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Table. S1 Effect of co-existing substances on the RTP intensity of 0.5μM MG.

Co-existing substance	[Co-existing substance] / [MG]	Change of the RTP Intensity (%)
K^+	1000	-1.3
Ca^{2+}	50	+3.5
Mg^{2+}	300	+5.2
HCO_3^-	500	+3.4
Lys	200	+2.9
Glu	200	+4.3
Arg	400	+3.8
Gly	400	+1.4

Table. S2 MG spiked recovery experiments with fishes and natural waters (mean±s, n=3).

Type of samples	MG spiked (μM)	Recovery（%）
C. idellus	0.2	96±5
	2	98±6
	10	107±3
natural water	0.2	95±5
	2	101±4
	10	102±4

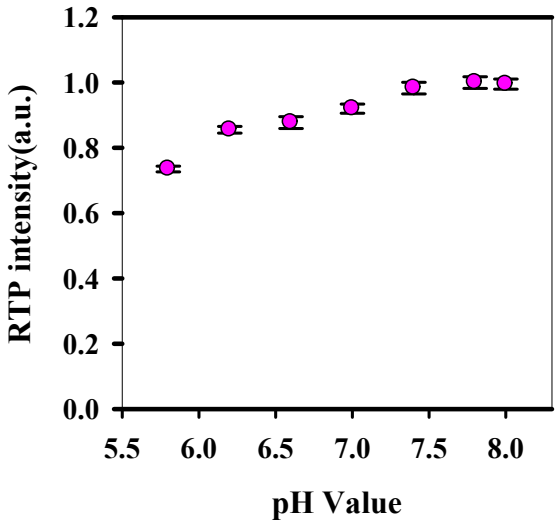

Fig. S1 Effects of pH on RTP intensity of MIP-coated QDs.

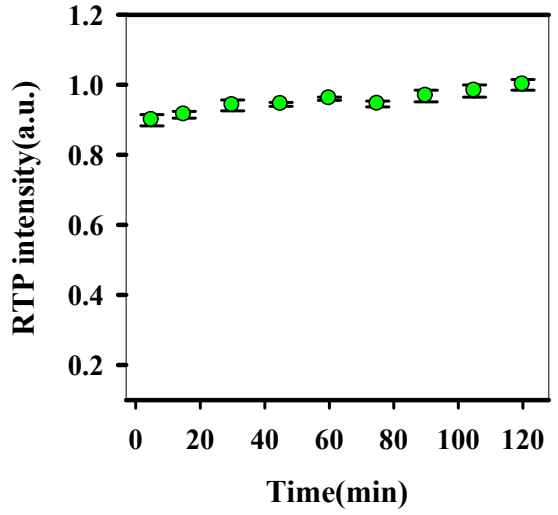

Fig. S2 Effects of time on RTP intensity of MIP-coated QDs.

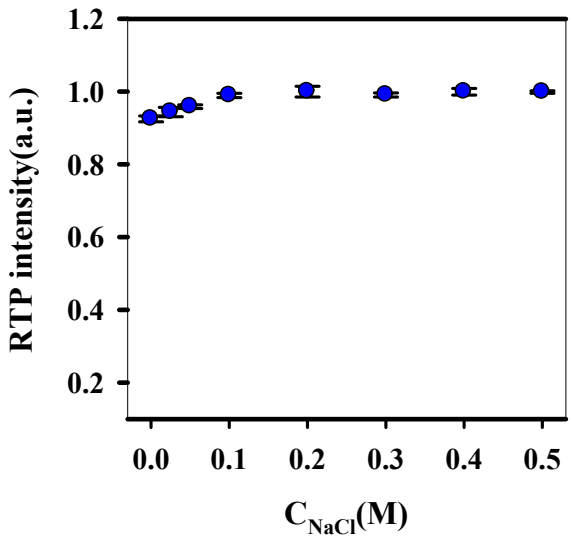

Fig. S3 Effects of NaCl concentration on RTP intensity of MIP-coated QDs.