



three months.

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- 19





21 Figure S2 The absorption ratio (A_{650}/A_{526}) of Au NPs and Au NPs-AHMT in the presence of 2 μ M kanamycin with







Figure S3 UV-vis absorption spectrum of the AuNPs with the modification of different volume of 0.1 mM AHMT

29 in the presence of 2 μ M kanamycin. Inset exhibits the absorption ratio (A₆₅₀/A₅₂₆) versus different volume of AHMT.

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33 Figure S4 Effect of (A) pH, (B) AHMT-AuNPs volume content and (C) reaction time on the absorption ratio

34 $~(A_{650}\!/A_{526})$ of AHMT-AuNPs in the presence of 2 μM kanamycin.



36 Figure S5 (A) Effect of pH on the fluorescence intensity of Cu NCs. (B) Effect of the Au NPs-AHMT volume on the

37 fluorescence recovery of Cu NCs. (C) Effect of Cu NCs volume on the fluorescence recovery of Cu NCs.

39 Table S1 Parameters extracted from the fluorescence decay curves.

te 51 i arameters extracted nom the hubbeseence decay curves.							
	Sample	τ_1	A_1	$ au_2$	A_2	$ au_{avg}(\mu s)$	
	Cu NCs	1.68	4359250.00	14.00	1933.09	1.72	
	Cu NCs +Au NPs-AHMT	1.52	8268430.00	13.23	1926.64	1.54	

 $\tau_{avg}(\mu s) = (\tau_1^2 A_1 + \tau_2^2 A_2)/(\tau_1 A_1 + \tau_2 A_2)$ (A: amplitude).

44	Table S2	Analytical results	of kanamycin in w	vater samples ((n=3)).
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			Colorimetric			Fluorometric	
Sample	Added	Found	Recovery	RSD/%,	Found	Recovery	RSD/%,
	/nM	/nM	/%	n=3	/nM	/%	n=3
River water	0	ND	-	-	ND	-	-
	10.00	10.06	100.60	2.81	10.59	105.90	2.05
	50.00	51.13	102.26	1.16	53.20	106.40	4.10
	150.00	148.60	99.07	4.61	141.97	94.65	5.42

45 ND: not detected.