An Alkyne-mediated SERS Aptasensor for Anti-interference Ochratioxin A Detection in Real Samples

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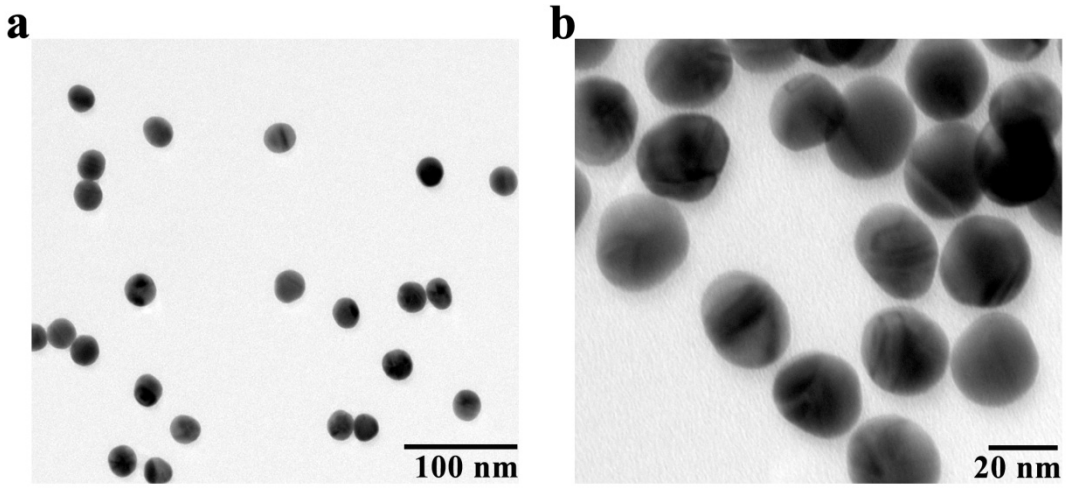

Figure S1. TEM images of **(a)** Au NPs and **(b)** 4-TEAE/Au NPs.

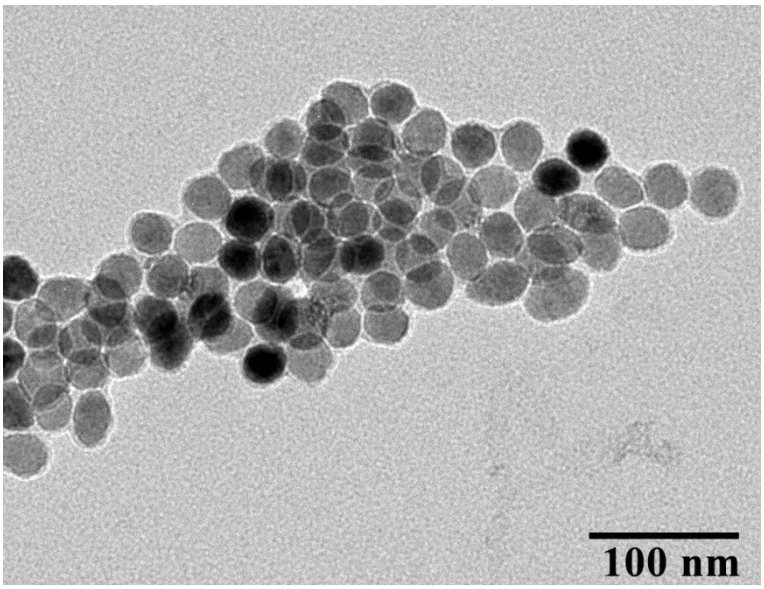

Figure S2. SEM images of Fe_3O_4 NPs.

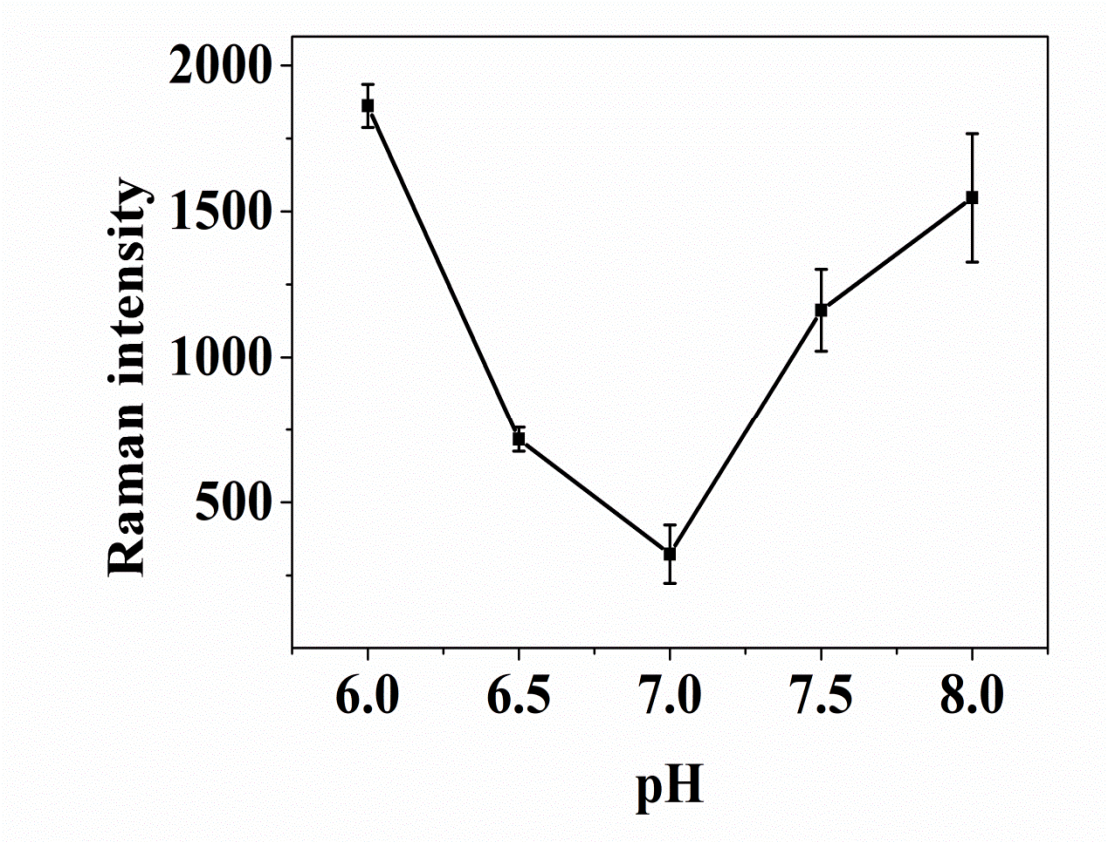

Figure S3. Raman intensity detected at 1998 cm^{-1} for the optimization of pH

Table S1. Comparison of Different Methods for Pesticide Residues Detection

Detection method	Pesticides	Linear range	LODs	Real samples	Ref.
colorimetric	Iprobenfos Edifenphos	1 μM-100 μM	1.67 μM 38 nM	Spiked rice	[1]
electrochemical	1-Naphtol	0.1 μM-10 μM	0.27uM	Fruit juices	[2]
fluorescence	Omethoate	0-200 nM	0.22 nM	Cabbage Lake water	[3]
electrochemical	Acetamiprid	5-6000 nM	1 nM	Apple Wastewater Tomato	[4]
fluorescence	Thiamethoxam	10-1000 nM	1.23 nM	Environmental water	[5]
electrochemical	Acetamiprid	0.25-2.0 mM	0.086 mM	Fruit juice	[6]
SERS	OTA	0.1-150ng/mL	0.03ng/mL	soybean, grape and milk	This aptasensor

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