A simple electrochemical platform based on pectin stabilized gold nanoparticles for picomolar detection of biologically toxic amitrole

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Fig. S1. The chemical structure of amitrole



Fig. S2 (A) UV-visible spectrum and XRD pattern of CCLP-GNPs.



Fig. S3 The selectivity of CCLP-GNPs/GCE to detect amitrole (500 pM). Interferences: 1000 folds excess concentration (500 nM) of Na⁺, K⁺, Ca²⁺, Mg²⁺, Ba²⁺, Fe²⁺, Co²⁺, Cl⁻, F⁻ and I⁻; 100-folds excess concentration (50 nM) of trazine, atraton, 2-hydroxy atrazine and ametryn.

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Samples	Added (pM)	Found (pM)	Recovery (%)	*RSD (%)
Tap water	100	104.1	104.1	3.2
	200	204.6	102.3	3.2
River water	100	96.7	96.7	3.4
	200	204.6	102.3	3.7

* Relative Standard Deviation of 3 individual measurements.