

Electronic Supplementary Information

Antibody-free colorimetric detection of chlorothalonil in cucumber via the inhibition of enzyme-triggered reaction

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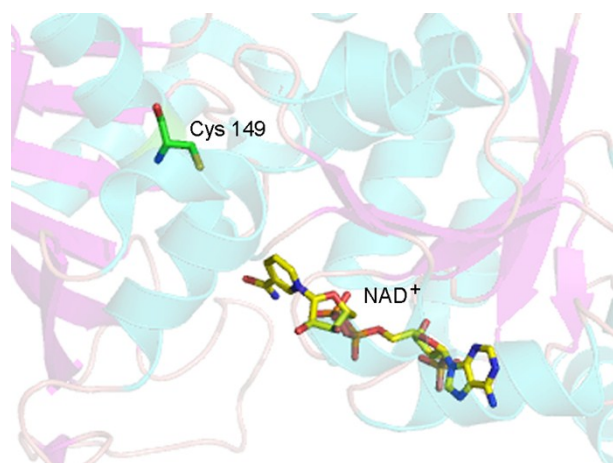


Fig. S1 The Cys 149 and NAD⁺ in the GAPDH active site ¹.

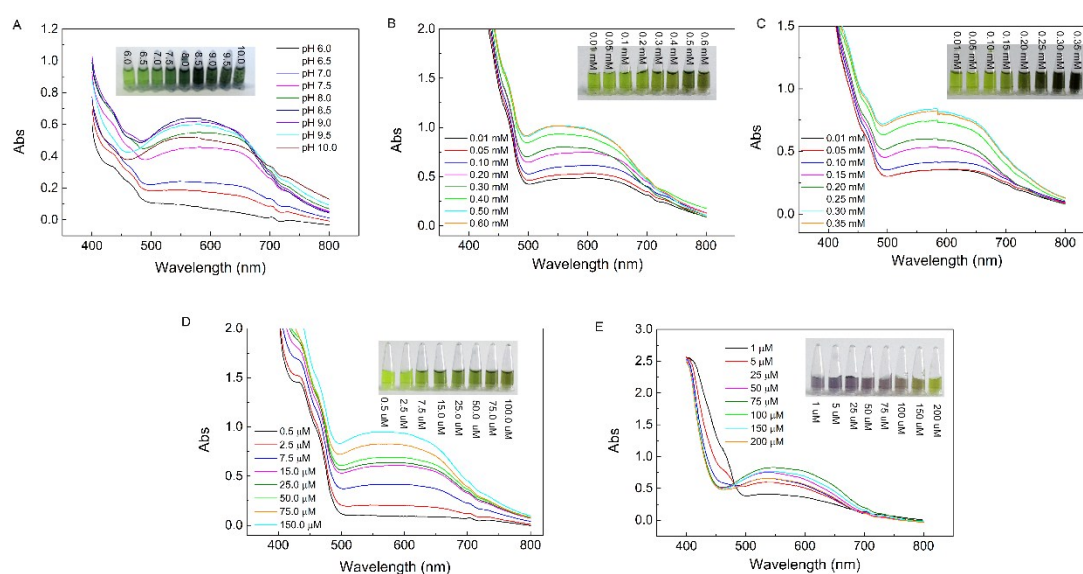


Fig. S2 Optimization of experimental conditions. UV-vis spectra of chromogenic system with different pH values (A), various concentrations substrates (GAP (B), NAD^+ (C), NBT (D) and PMS (E)), and varied incubation time intervals (E) in the presence of 5 μM CTL. The insert portions were the corresponding photographic images.

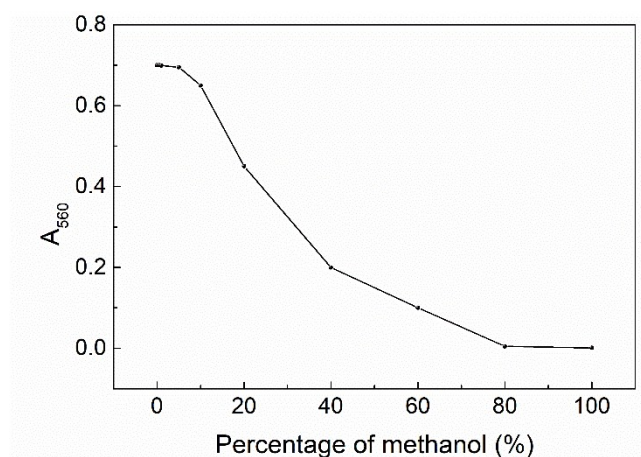


Fig. S3 Effect of different volume of methanol on the enzymatic activity of GAPDH

Table S1 The recovery under different concentration of CTL in cucumber samples by HPLC analysis

Sample	Added (ng·mg ⁻¹)	HPLC analysis		
		Found (ng·mg ⁻¹)	Recovery (%)	RSD (%)
Cucumber 1	50	43.2±1.4	86.4	3.2
Cucumber 2	100	94.1±3.6	94.1	3.8
Cucumber 3	150	130.1±4.3	86.7	3.3

1. K. A. Chernorizov, J. L. Elkina, P. I. Semenyuk, V. K. Svedas and V. I. Muronetz, *Biochemistry (Mosc)*, 2010, **75**, 1444-1449.