

Supplementary Information

**Gold nanoparticle-based immunochromatographic assay for
rapid detection of imazalil**

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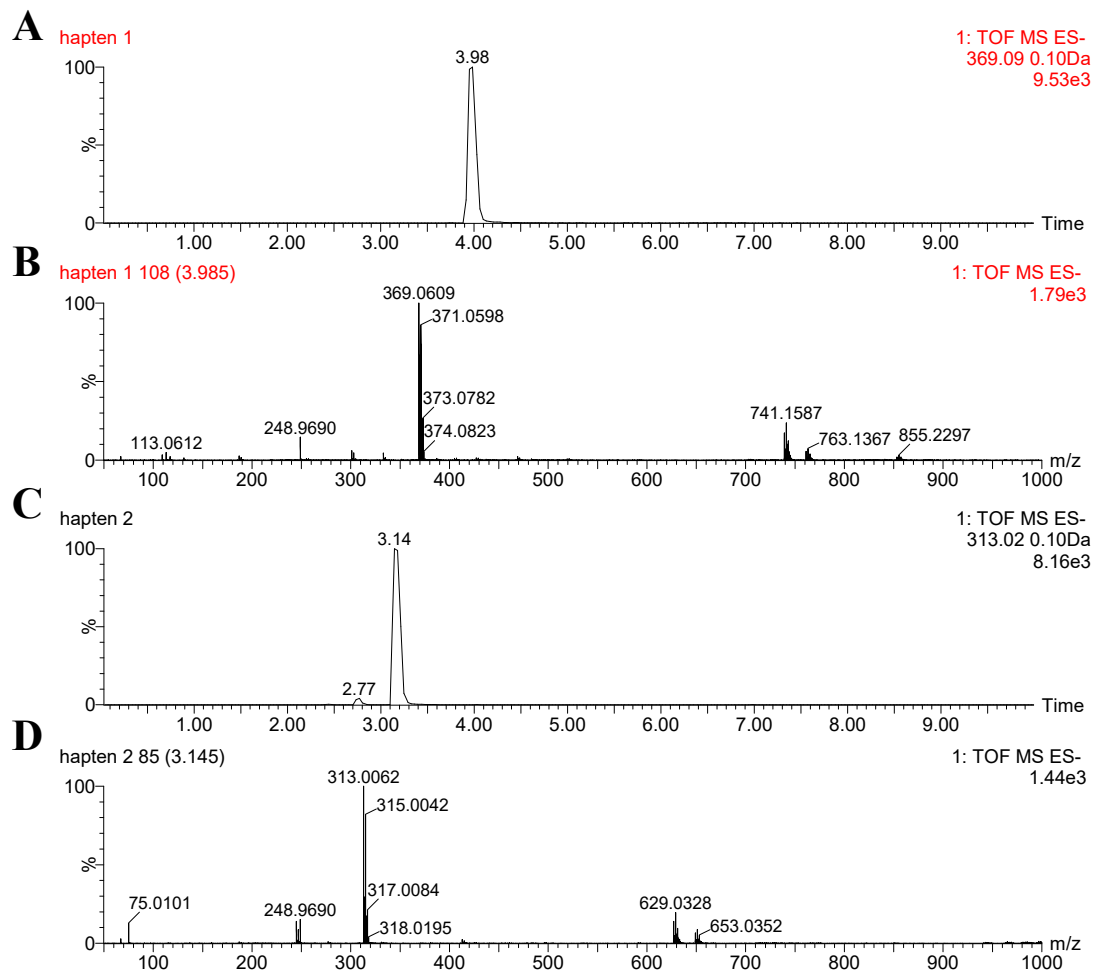


Figure S1. LC-MS analysis of IMZ haptens. (A) The liquid chromatogram of hapten 1. (B) The mass spectrum of hapten 1. (C) The liquid chromatogram of hapten 2. (D) The mass spectrum of hapten 2.

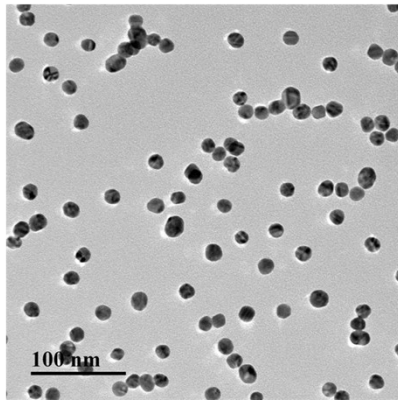
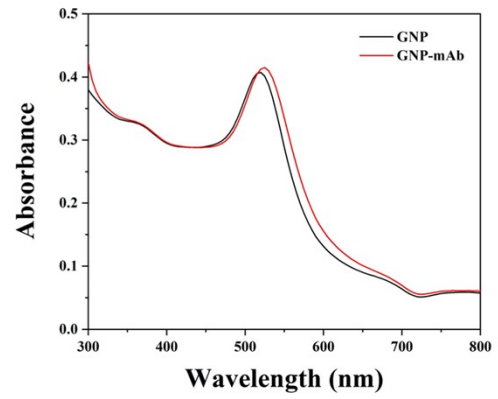
A**B**

Figure S2. Characterization of GNPs. (A) Transmission electron microscopy of GNPs. (B) UV spectroscopy of GNPs and GNP-mAbs.

Immunogen			BSA-hapten 1					BSA-hapten 2				
Coating antigen			OVA-hapten 1 (0.1 µg/mL)					OVA-hapten 2 (0.1 µg/mL)				
Mice number			1	2	3	4	5	6	7	8	9	10
3 rd immunization	Titer	OD450	2.092	1.564	2.025	1.613	1.729	1.648	2.291	2.07	1.978	1.317
	Inhibitory effects	IMZ 200 ppb	<0	19%	4%	13%	2%	76%	76%	70%	7%	51%
5 th immunization	Titer	OD450	Not measured					1.165	2.333	1.367	1.539	1.162
	Inhibitory effects	IMZ 20 ppb	Not measured					59%	55%	62%	9%	37%

Table S1. Antisera data of mice immunized with BSA-hapten 1 and BSA-hapten 2.