

Table S1: Comparison of electrochemical immunosensor for detection of mycotoxins.

Bio-electrode	Targets	Detection limit	Amplification	Complexity	Samples
RGO/ITO <sup>1</sup>	AFB <sub>1</sub>	0.25 ng mL <sup>-1</sup>	Needed	Medium	Spiked samples
MWCNTs/RTIL/GCE <sup>2</sup>	AFB <sub>1</sub>	0.03 ng mL <sup>-1</sup>	Needed	Medium	Olive oil
SWCNTs/Chitosan/GCE <sup>3</sup>	AFB <sub>1</sub>	3.5 pg mL <sup>-1</sup>	Needed	Medium	Corn
PoPD/Nanoelectrode <sup>4</sup>	AFB <sub>1</sub>	0.02 ng mL <sup>-1</sup>	Needed	Hard	Spiked samples
PB/SPE <sup>5</sup>	AFB <sub>1</sub>	2 ng mL <sup>-1</sup>	Needed	Medium	Olive oil
MNPs/GNPs/Chitosan/GCE <sup>6</sup>	AFB <sub>1</sub>	0.2 ng mL <sup>-1</sup>	Needed	Hard	Spiked samples
MNPs/SPE <sup>7</sup>	OTA	5 ng mL <sup>-1</sup>	Not needed	Medium	Red wine
HRP/SPE <sup>8</sup>	Fms	5 ng mL <sup>-1</sup>	Needed	Medium	Corn
GNPs/SPE <sup>9</sup>	AFM <sub>1</sub>	15 ng mL <sup>-1</sup>	Needed	Medium	Milk
HRP/GME <sup>10</sup>	AFM <sub>1</sub>	8 ng mL <sup>-1</sup>	Needed	Medium	Milk
SPIM*	AFB <sub>1</sub>	5 ng mL <sup>-1</sup>	Not needed	Easy	Rice

\* our present work.

(SWCNTs-single-walled carbon nanotubes; GCE-glassy carbon electrode; MWCNTs-multi-walled carbon nanotubes; RTIL-room temperature ionic liquids; PoPD-poly (o-phenylenediamine); PB-prussian blue; MNPs-magnetic nanoparticles; GNPs-Au nanoparticles; PANi-polyaniline; IDE-interdigitated electrode; RGO-reduced graphene oxide; ITO-indium tin oxide; HRP-horse reddish peroxidase; GME-gold microelectrode; Fms- fumonisins)

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