

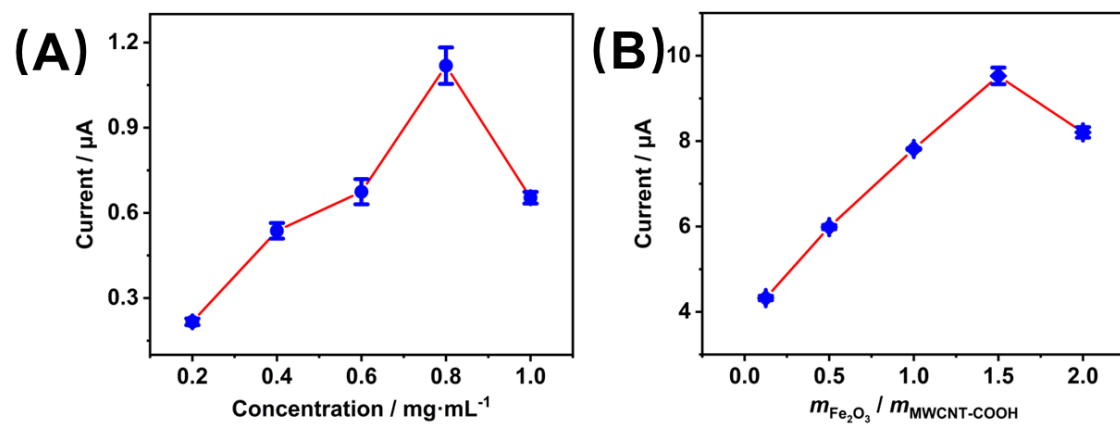
## **Supporting information**

# **A Low-Cost Electrochemical Cell Sensor Based on MWCNT-COOH/ $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> for Toxicity Detection of Drinking Water Disinfection Byproducts**

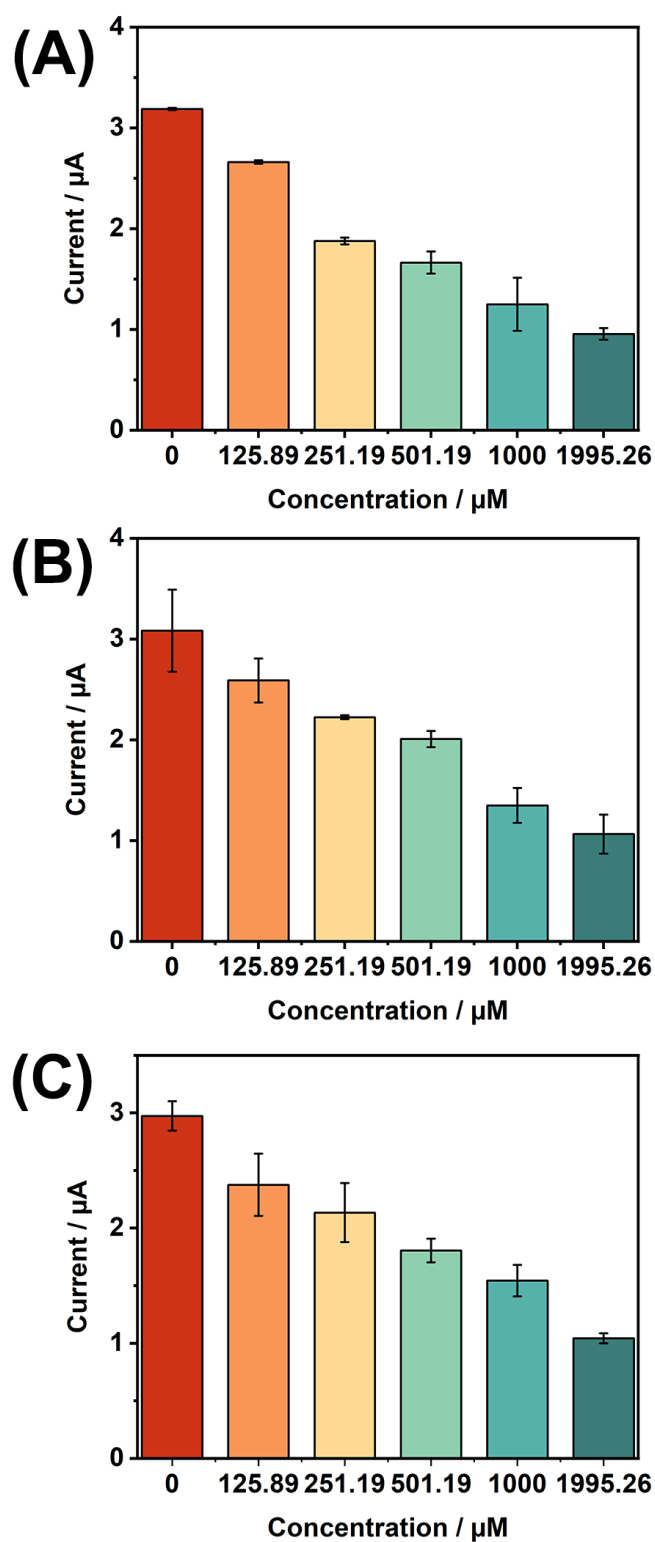
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**Figure S1** Oxidation peak current diagram of 20  $\mu\text{M}$  xanthine/guanine mixture at (A) MWCNT-COOH/PEG and (B) MWCNT-COOH/ $\alpha\text{-Fe}_2\text{O}_3$ /PEG.



**Figure S2** The oxidation peak current values of cell lysates corresponding to different concentrations of (A) 2-CPAN, (B) 3-CPAN, and (C) 4-CPAN.