Supporting Information

Rapid Electrochemical Sensing of Arsenic-Based Feed Additive using a Neodymium Orthovanadate-Modified Electrode: A Tool for Minimizing Arsenic Exposure-Linked Kidney and Cardiovascular Health Risks

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Table S1. Comparison of RAS detection performances of $NdVO_4$/GCE with other RAS sensors.

Methods	Linear range (µM)	LOD (nM)	Ref.
DPV	0.025–2650	12.4	S1
DPV	0.05–490	30	S2
DPV	0.01–1130	2	S3
DPV	0.035–1816.5	22.5	S4
LSV	0.05–83.15	6	S5
DPV	0.1–442.6	75	S6
DPV	0.02–0.20	40	S7
DPV	0.01–453.4	4.3	S8
DPV	**0.01–191.04**	**1.3**	**This work**

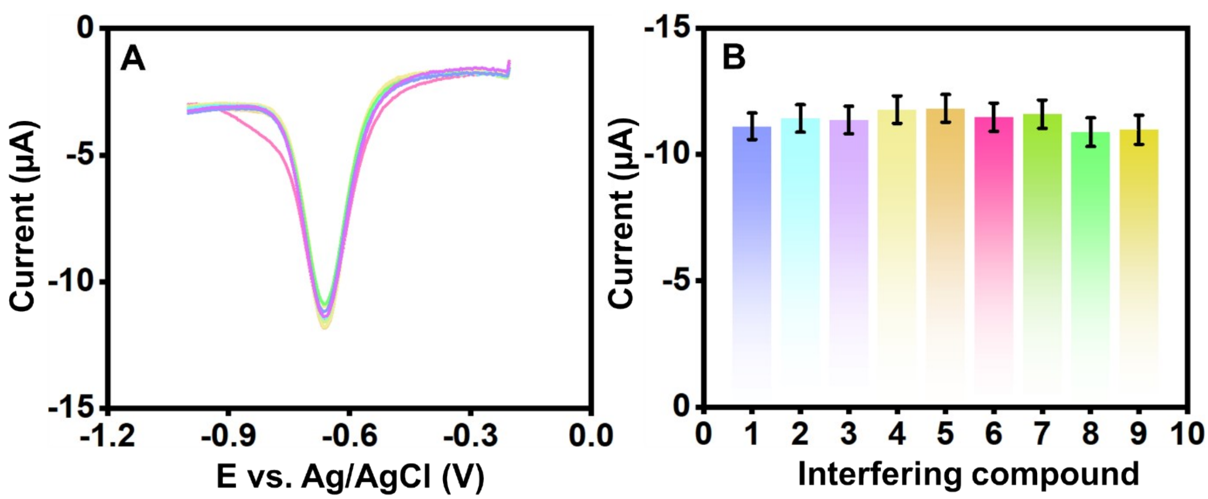

Figure S1. (A) Anti-interfering study of $NdVO_4$/GCE in the presence of RAS with co-interferents compounds and **(B)** corresponding bar diagram for interfering compounds versus currents responses.

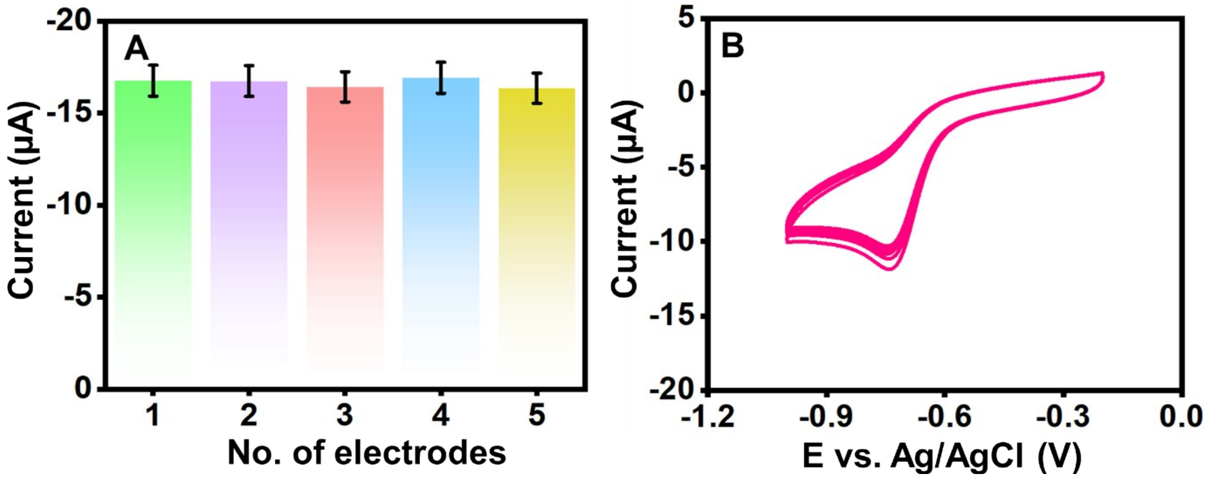

Figure S2. **(A)** Reproducibility study and **(B)** cyclic stability of $NdVO_4$/GCE in the presence of RAS.

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