

**Supporting information**

**A facile synthesis of Co (II) doped cobalt oxide nanostructures; Application for the sensitive determination of prophylactic drug furazolidone**

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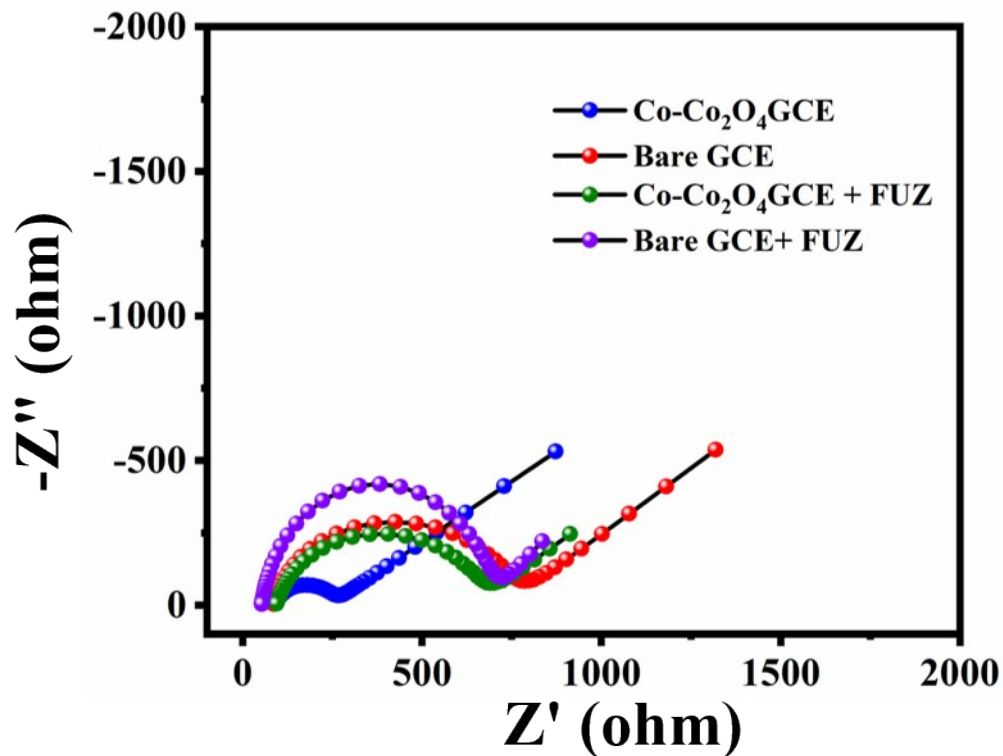
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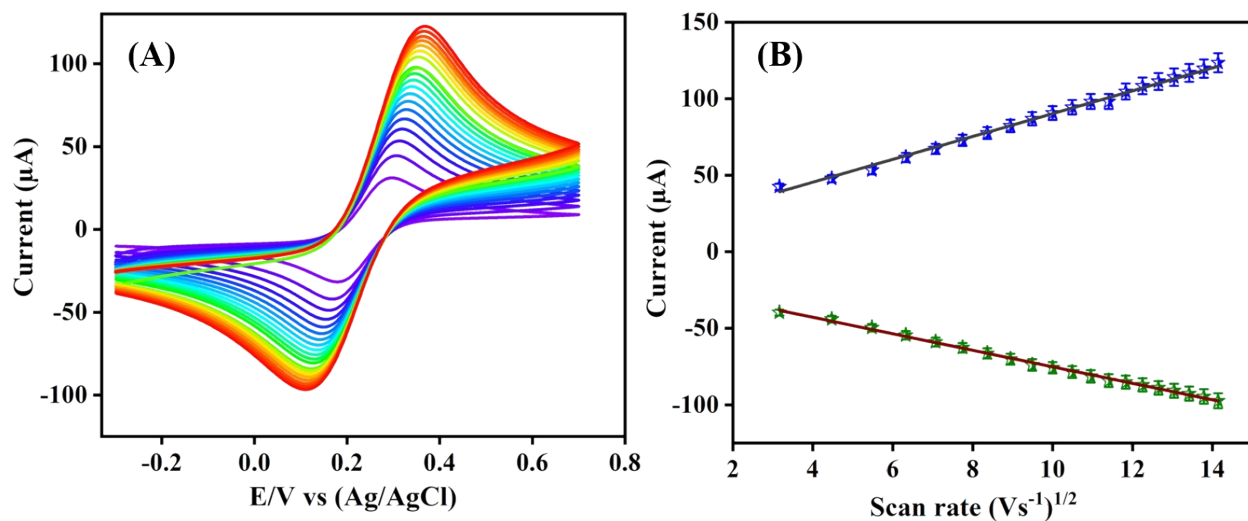
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**Fig. S1.** EIS curves for bare gce and Co-Co<sub>2</sub>O<sub>4</sub>/GCE with and without the presence of 10  $\mu$ M FUZ.



**Fig. S2.** (A) CV plot for different scan rates (20-240  $mVs^{-1}$ ) at Co-Co<sub>2</sub>O<sub>4</sub>/GCE in 5 mM of [Fe(CN)<sub>6</sub>]<sup>3-/4-</sup> comprises of 0.1 M of KCl. (B) Corresponding linear calibration plot for the redox couple.

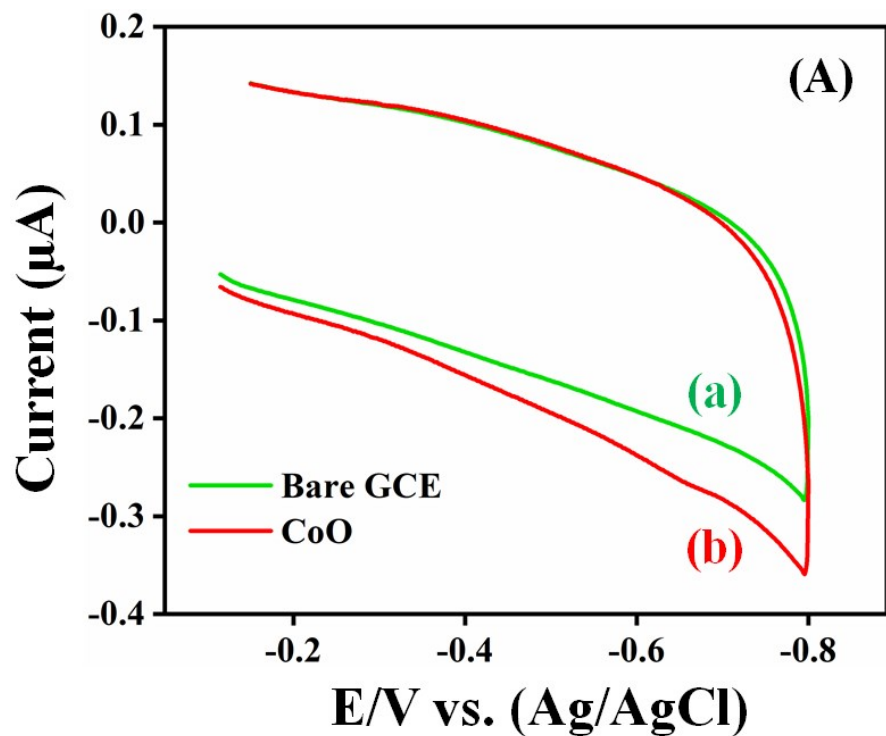


Fig. S3. (A) Current response in the absence of FUZ at bare GCE (a) and Co-Co<sub>2</sub>O<sub>4</sub>/GCE (b).

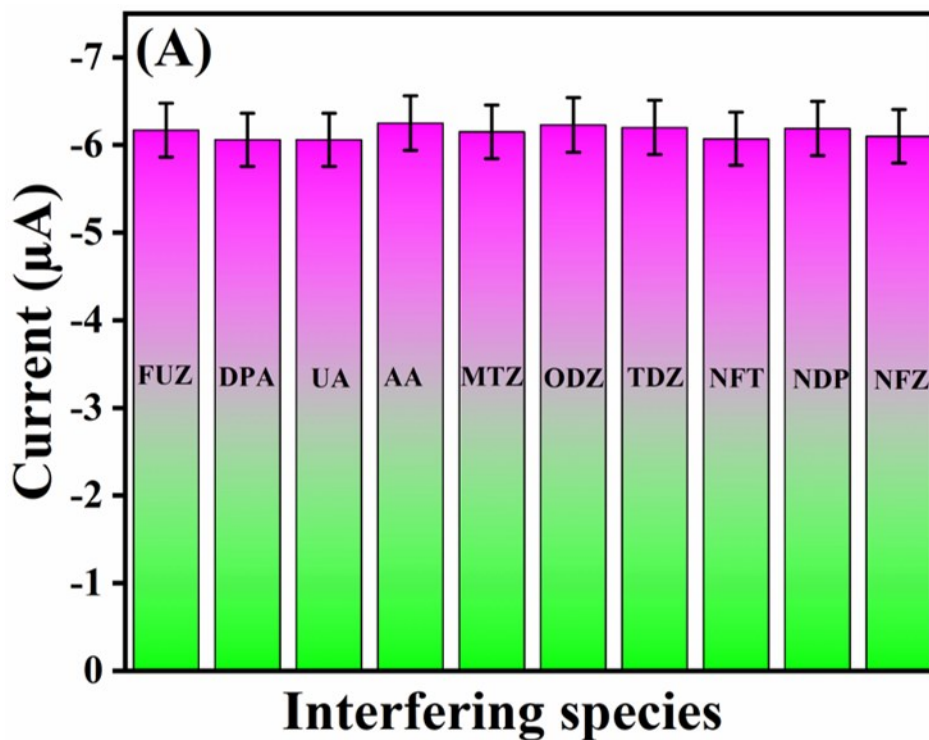


Fig. S4. (A) Error bar graph for interfering species vs. current.