Supplementary Materials: Identification of Chinese Herbs Using a Sequencing-Free Nanostructured Electrochemical DNA Biosensor

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Figure S1. DPV diagrams of 10pM target DNA on AuNPs/RGO/GCE at different days.

Table S1. Comparison of the proposed method with other different modified electrodes for DNA detection.

| Electrodes                  | Method | Linear Range   | LOD (pM) | References |
|-----------------------------|--------|----------------|----------|------------|
| ERGO/GCE                    | DPV    | 1 pM–100 nM    | 0.545    | [10]       |
| AuNPs/rGO/GCE               | DPV    | 0.1 pM–10 nM   | 0.035    | [16]       |
| AuNPs/PANI/CS-GS/GCE        | DPV    | 10 pM–1 nM     | 2.11     | [11]       |
| AuNPs/pThion/graphene/GCE   | DPV    | 0.1 pM–10 nM   | 2.11     | [23]       |
| AuNPs/RGO/GCE               | DPV    | 100 fM–10 nM   | 0.0117   | This work  |

Note: ERGO, electrochemical reduced graphene oxide; rGO, reduced graphene oxide; PANI, polyaniline; CS, chitosan; GS, graphene sheets; pThion, polythionine; GO, graphene oxide.