Electrochemical Determination of Ferulic Acid in *Pinellia Ternata* Based on GOs/MWCNTs Nanocomposite Modified Electrode

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The rapid electrochemical determination of ferulic acid (FA) was assiduously scrutinized by cyclic voltammetry (CV) using graphene oxide sheets (GOs) and multi-walled carbon nanotubes (MWCNTs) nanocomposites modified glassy carbon electrode. The synergistic out-come of GOs and MWCNTs resulted in superior electrocatalysis performance. Under optimal conditions, the peak current was proportional to FA concentration in the range of 0.24 μM to 32 μM , and 88 μM to 1.23 mM, with a relative low detection limit of 0.08 μM . Besides, it was successfully applied to detect FA in *Pinellia ternate* with recovery values in the range of 102.8%-113.2%, which made it a potential alternative tool for the quantitative detection of FA in pharmaceutical analysis and quality evaluation of traditional Chinese medicine.

Keywords: Ferulic acid; *Pinellia ternate*; Graphene oxide; Muti-walled carbon nanotubes; Electrochemical determination

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