Short Communication

Sensitive Detection of Baicalein Based on GR/DNA/GCE

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We report herein a sensitive electrochemical assay for the detection of baicalein. The highly-active working electrode was obtained by decorating the glassy carbon electrode modified with graphene and DNA (GR/DNA/GCE), which was characterized by cyclic voltammetry (CV) and electrochemical impedance spectroscopy (EIS). Electrochemical behavior of baicalein on the (GR/DNA/GCE) was systematically studies. Under optimized conditions, the typical oxidation current was found linear with concentration of baicalein in a range of $7.3 \times 10^{-7} \sim 1.17 \times 10^{-4}$ M with a low detection of 3.2×10^{-7} M.

Keywords: Baicalein, Electrochemical sensor, Graphene, DNA

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