## **Supporting Information**

## for

## Molecularly imprinted electrochemical sensor based on an electrode modified with imprinted pyrrole film immobilized on β-cyclodextrin/gold nanoparticles/graphene layer

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**Figure S1** CV for the electropolymerization in the 0.1 mol/L KCl solution containing  $1.0 \times 10^{-4}$  mol/L quercetin and  $1.0 \times 10^{-2}$  mol/L pyrrole at the scanning rate of 100 mV/s for 1-15 cycles under a potential from -0.2 V to 1.0 V to get the polymers.-----2

**Figure S2** (a) Effect of pH for detect quercetin on MIPs/β-CD/AuNPs/GR/GCE; (b) Effect of pyrrole concentration on MIPs/β-CD/AuNPs/GR/GCE; (c) Optimization of scan rate and (d) scan cycles.-----3

**Figure S3** Stability of the imprinted sensor shown with the ratio of the current response of 3, 7, or 15 days to that of 0 day.----- 4



Fig. S1 CV for the electropolymerization in the 0.1 mol/L KCl solution containing 1.0×10<sup>-4</sup> mol/L quercetin and 1.0×10<sup>-2</sup> mol/L pyrrole at the scanning rate of 100 mV/s for 1-15 cycles under a potential from -0.2 V to 1.0 V to get the polymers



Fig. S2 (a) Effect of pH for detect quercetin on MIPs/β-CD/AuNPs/GR/GCE; (b) Effect of pyrrole concentration on MIPs/β-CD/AuNPs/GR/GCE; (c) Optimization of scan rate and (d) scan cycles



Fig. S3 Stability of the imprinted sensor shown with the ratio of the current response of 3, 7, or 15 days to that of 0 day.