

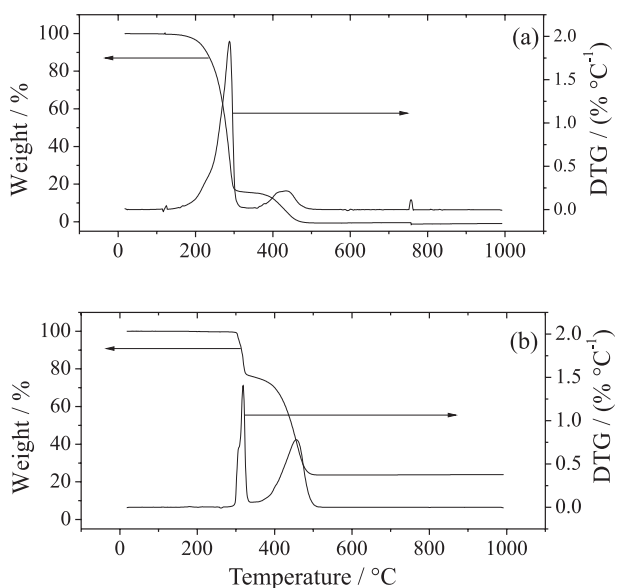
## Supplementary Information

### Using of a Graphite-Polyurethane Composite Electrode Modified with a Schiff Base as a Bio-Inspired Sensor in the Dopamine Determination

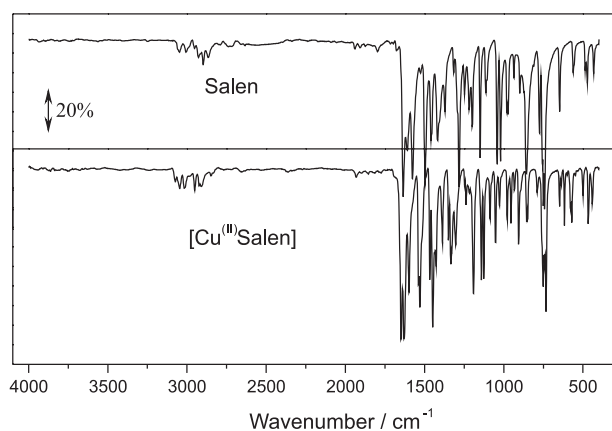
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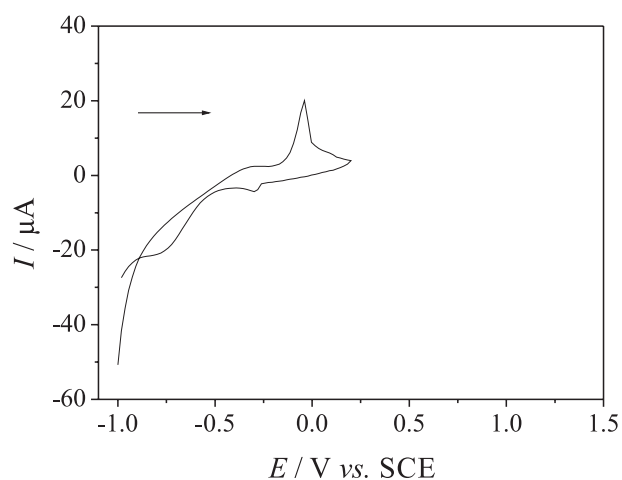
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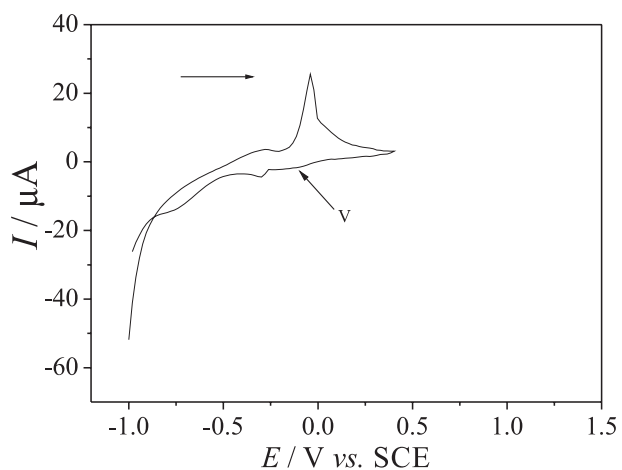
**Figure S1.** TGA/DTG curves for the Salen ligand (a) and [Cu(II)Salen] complex (b). Heating rate: 10 °C min<sup>-1</sup>; Al-sample holder; synthetic air; 100 mL min<sup>-1</sup>.



**Figure S2.** FTIR spectra for Salen ligand and [Cu(II)Salen] complex in KBr pellets.

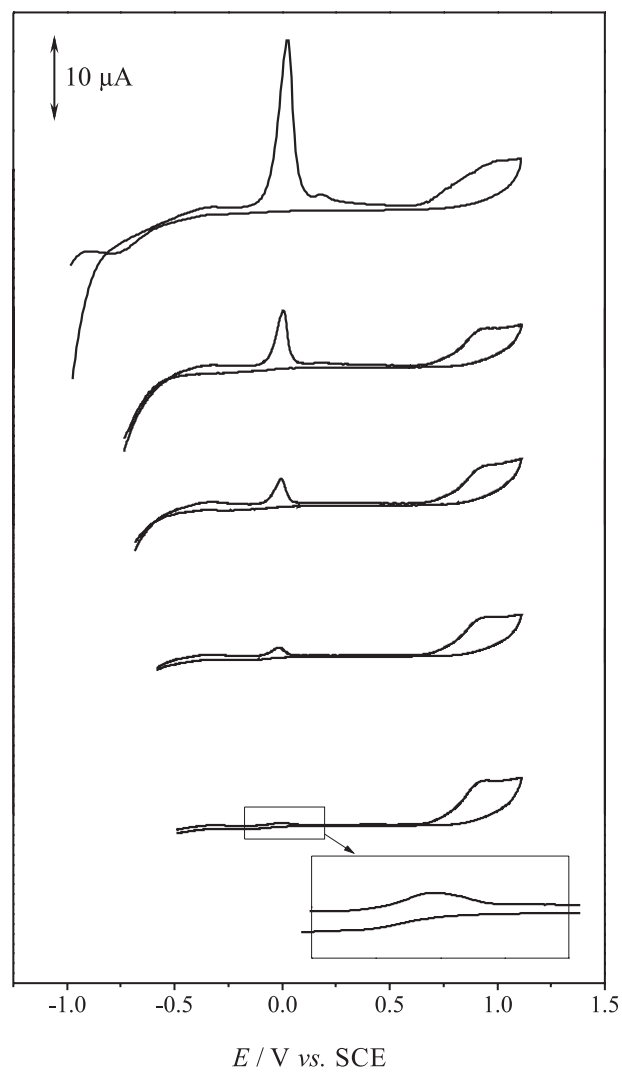


**Figure S3.** Cyclic voltammogram obtained between -1.0 and 0.2 V, with carbon paste electrode modified with [Cu(II)Salen] in 0.1 mol L<sup>-1</sup> phosphate buffer pH 5.0,  $\nu = 50$  mV s<sup>-1</sup>.



**Figure S4.** Cyclic voltammogram obtained between -1.0 and 0.4 V, with carbon paste electrode modified with [Cu(II)Salen] in 0.1 mol L<sup>-1</sup> phosphate buffer pH 5.0,  $\nu = 50$  mV s<sup>-1</sup>.

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**Figure S5.** Cyclic voltammogram obtained in different potential range, with carbon paste electrode modified with  $[\text{Cu}^{\text{II}}\text{Salen}]$  in  $0.1 \text{ mol L}^{-1}$  acetate buffer pH 5.0,  $\nu = 50 \text{ mV s}^{-1}$ .