

Supplementary Information

For

Electrochemical Evaluation of Plant Extracts as Potential Antidotes for Acetaminophen Poisoning

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Fig. S20: FT-IR spectrum of compound **5**.

Fig. S21: FT-IR spectrum of compound **6**.

Fig. S22: FT-IR spectrum of compound **7**.

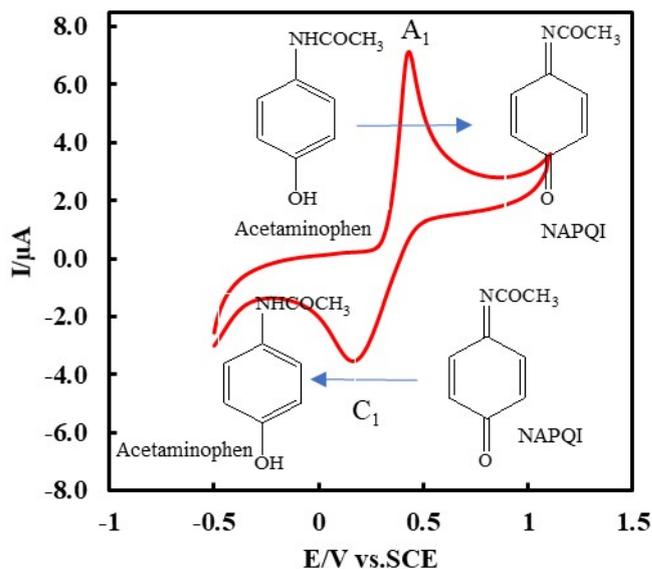


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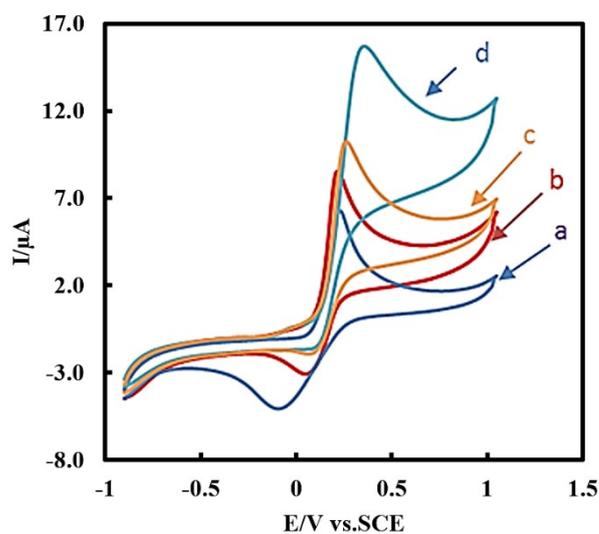


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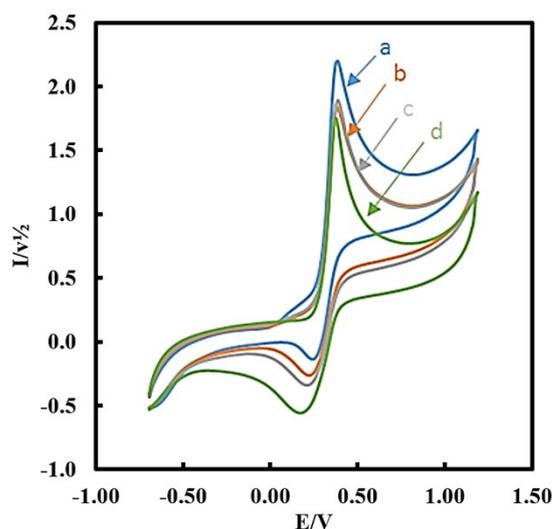


Fig.S3. Normalized cyclic voltammogram of acetaminophen (1×10^{-3} M) in the presence of 0.5 ml of pomegranate peel extract in phosphate buffer (pH 7.0, 0.2M) at a glassy carbon electrode. The potential scan rates are (a) 10, (b) 25, (c) 50 and (d) 100 mV s^{-1} , $t = 25^\circ\text{C}$.

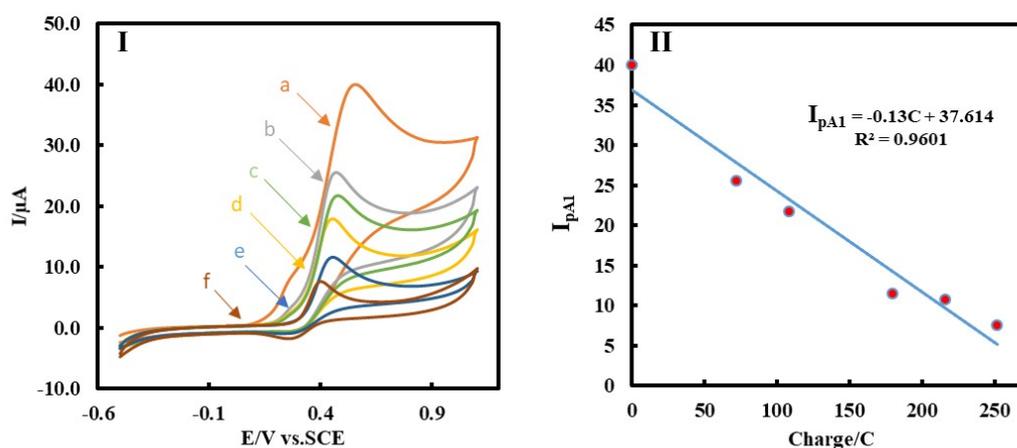


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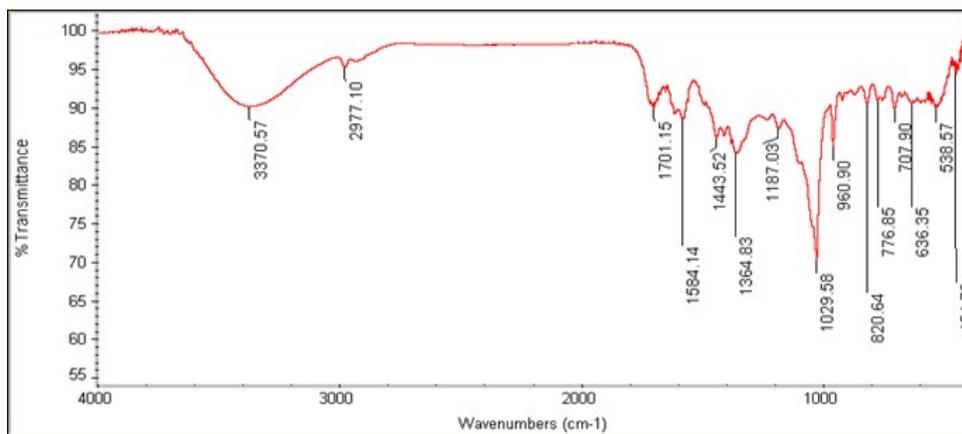


Fig. S5. FT-IR spectrum of compound **3**.

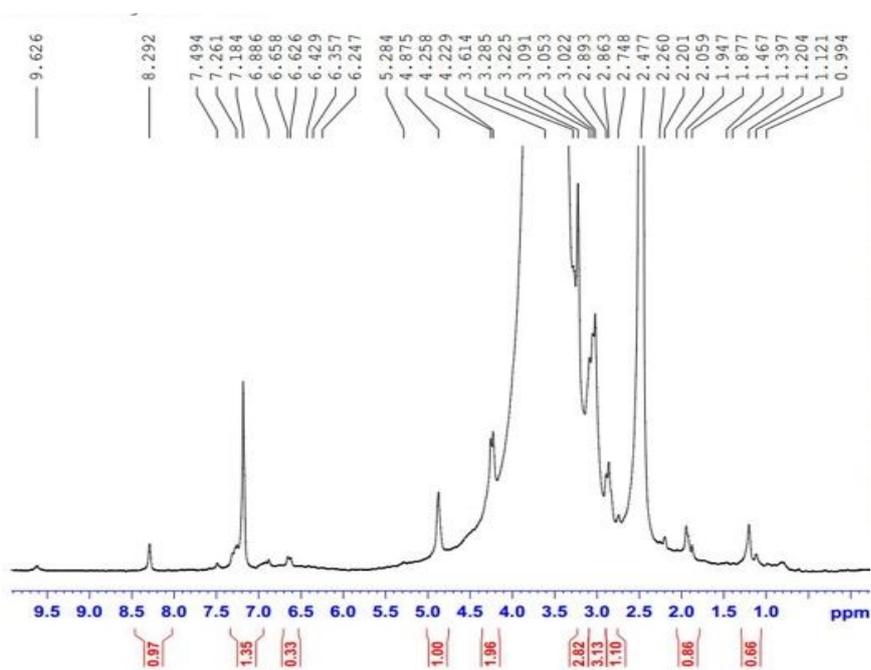


Fig. S6. ¹H NMR spectrum of compound **3**.

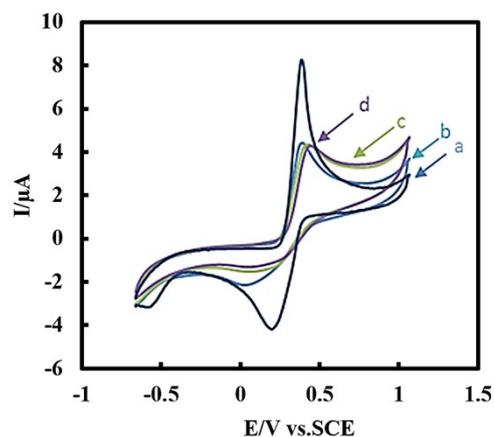


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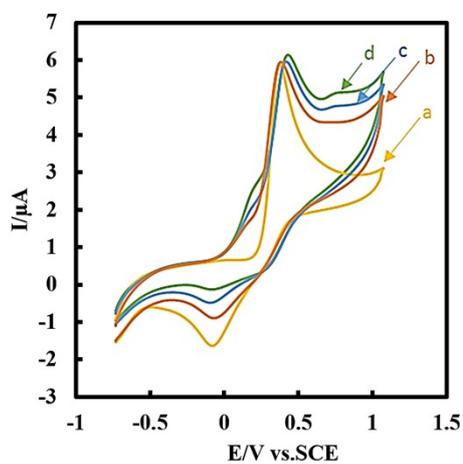


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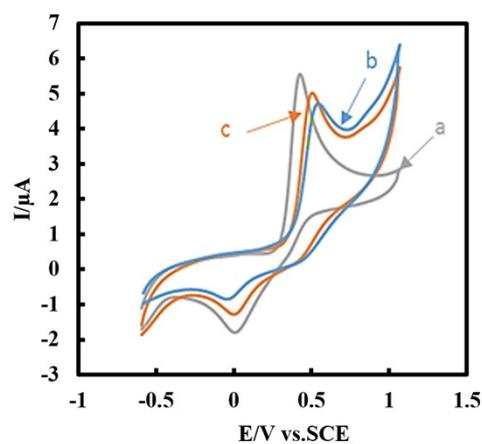


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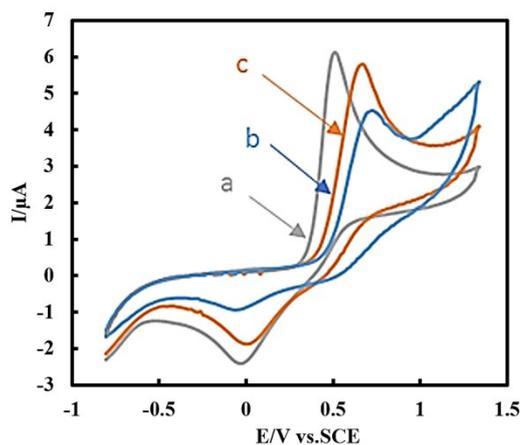


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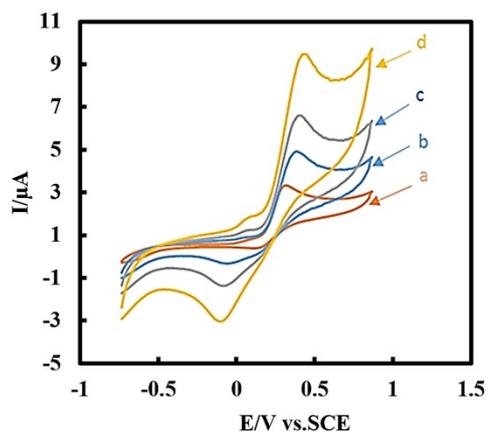


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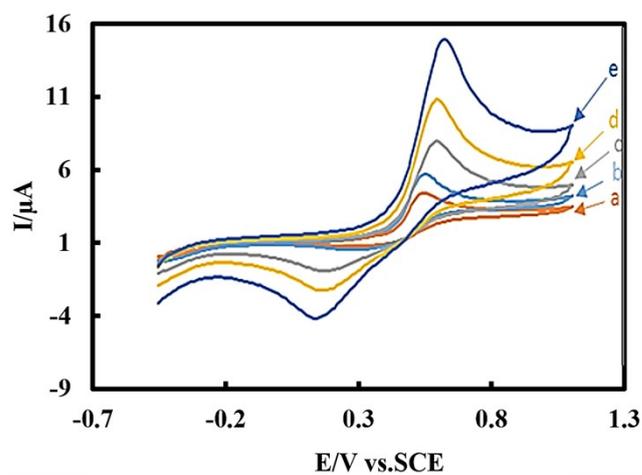


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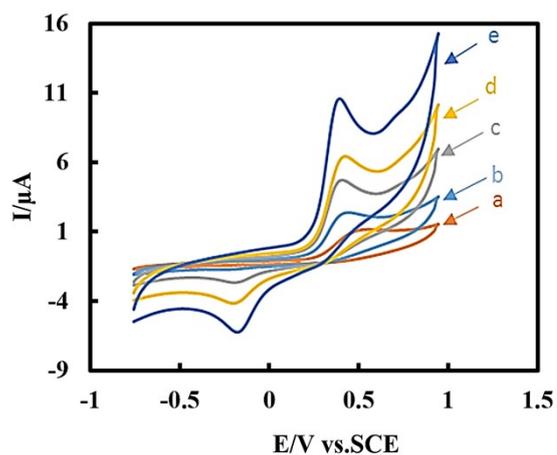


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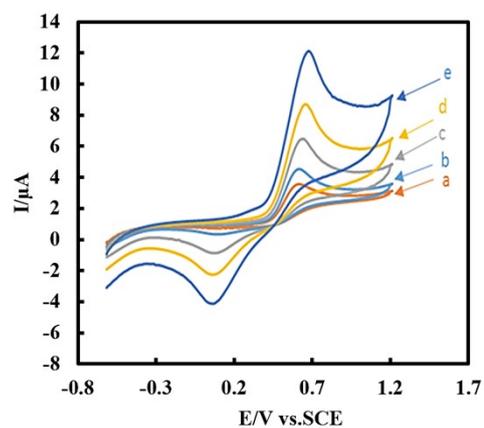


Fig. S14. Cyclic voltammogram of acetaminophen (1×10^{-3} M) in the presence of 1 ml turnip extract in phosphate buffer (pH 7.0, 0.2 M) at a glassy carbon electrode, recorded at various potential scan rates of (a) 5, (b) 25, (c) 50 and (d) 100 mV s^{-1} , $t = 25 \text{ }^\circ\text{C}$.

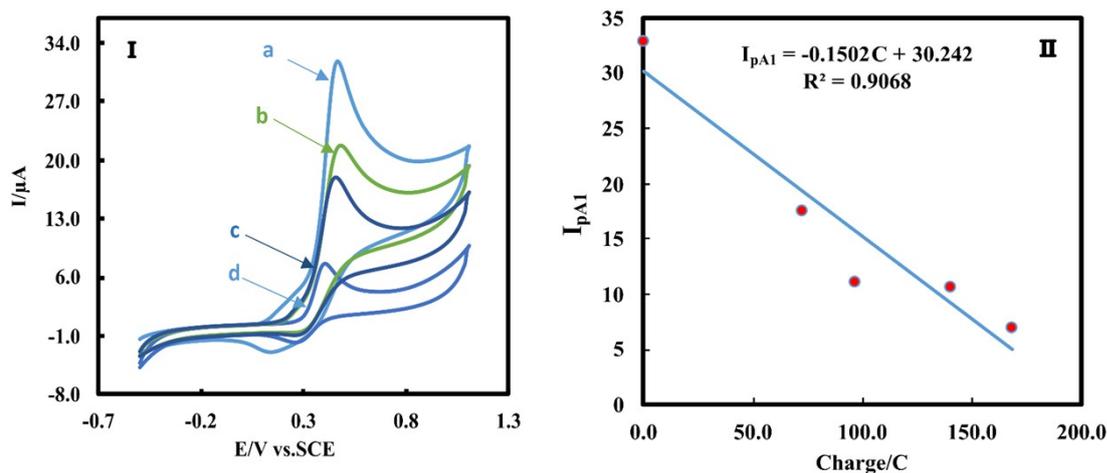


Fig. S15. (I) Cyclic voltammograms of 1 mmol of acetaminophen in the presence of 20 ml of pomegranate fruit extract, in phosphate buffer (pH 7.0, 0.2 M) at a glassy carbon electrode, recorded at various time points: (a) 0, (b) 36, (c) 72, and (d) 120 minutes, during controlled potential coulometry at 0.7 V (vs. SCE). The potential scan rate 50 mV s^{-1} , $t = 25^\circ\text{C}$. (II) Variation of anodic peak current (I_{pA1}) as a function of coulomb consumption for 1 mmol acetaminophen in the presence of 20 ml pomegranate fruit extract.

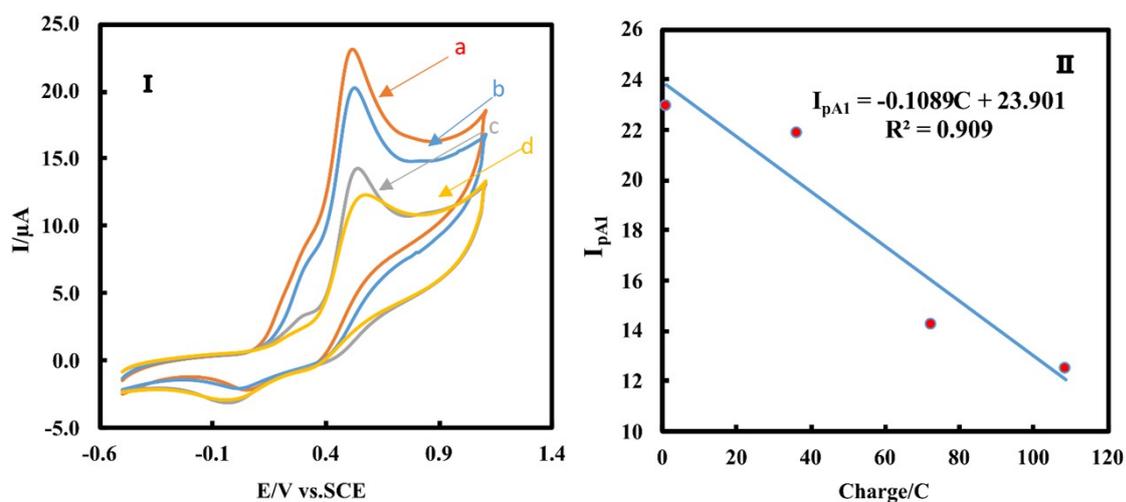


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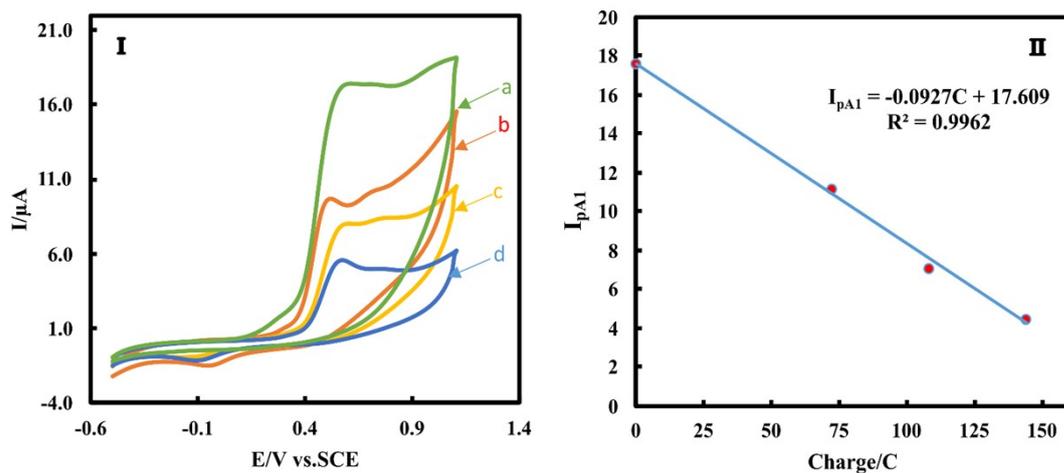


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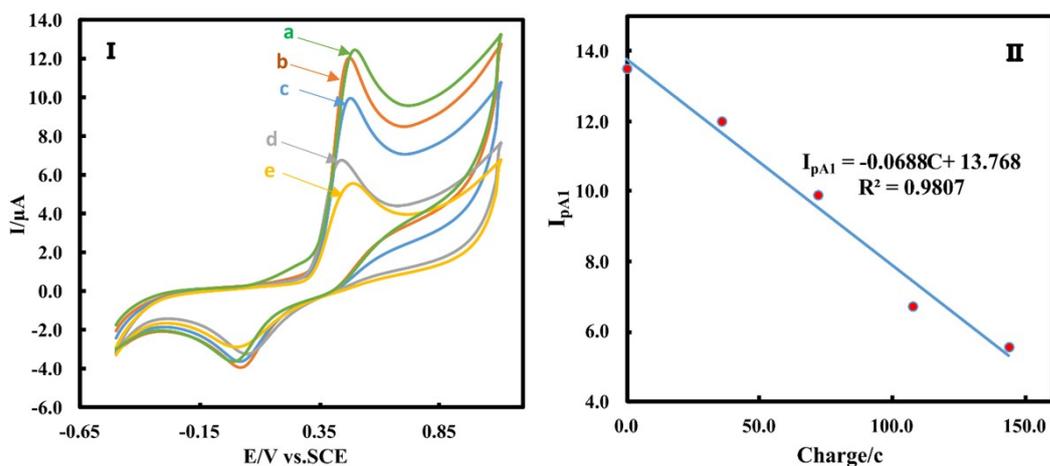


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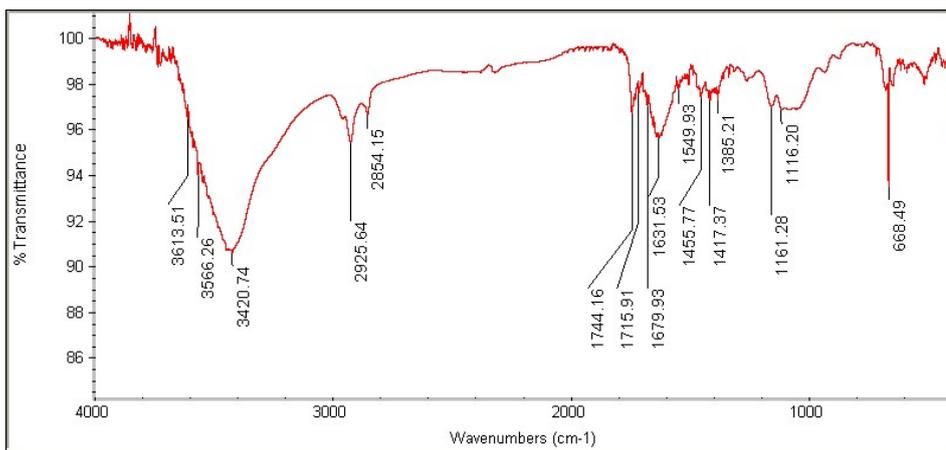


Fig. S19. FT-IR spectrum of compound 4.

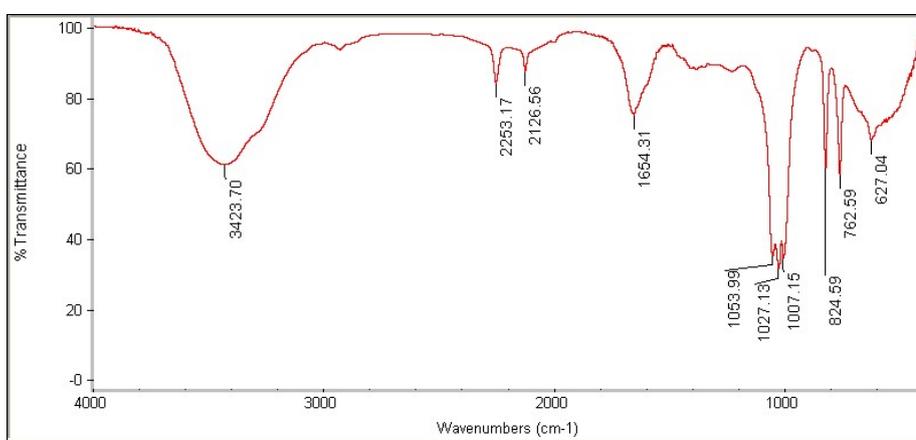


Fig. S20. FT-IR spectrum of compound 5.

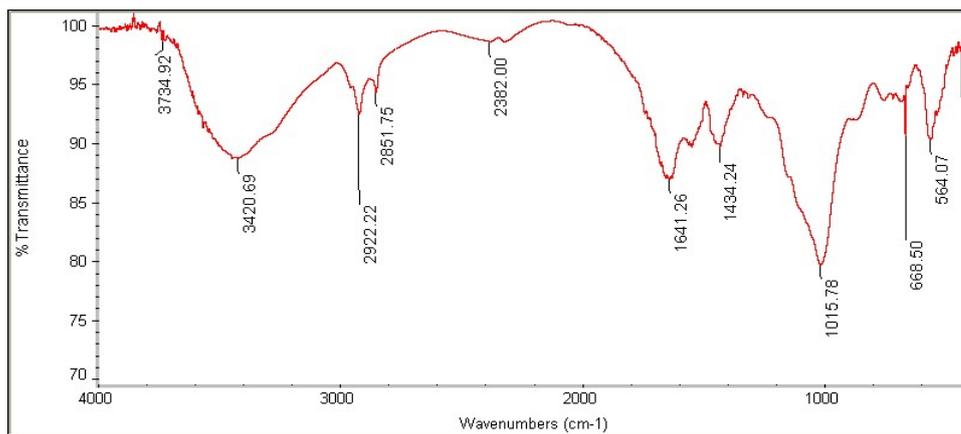


Fig. S21. FT-IR spectrum of compound 6.

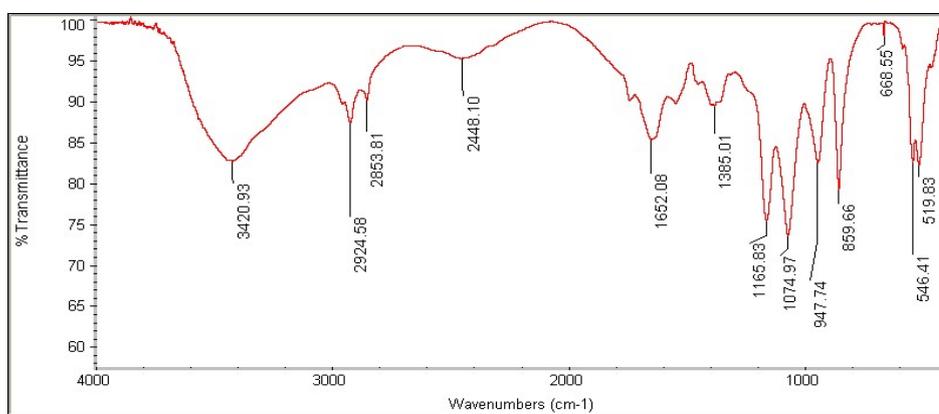


Fig. S22. FT-IR spectrum of compound 7.