

### Supplementary Data

This supplementary data is a part of a paper entitled “Synthesis and Identification with Biological Evaluation of Some Metal Ions Complexes Derived from Thymine-Azo Ligand”.

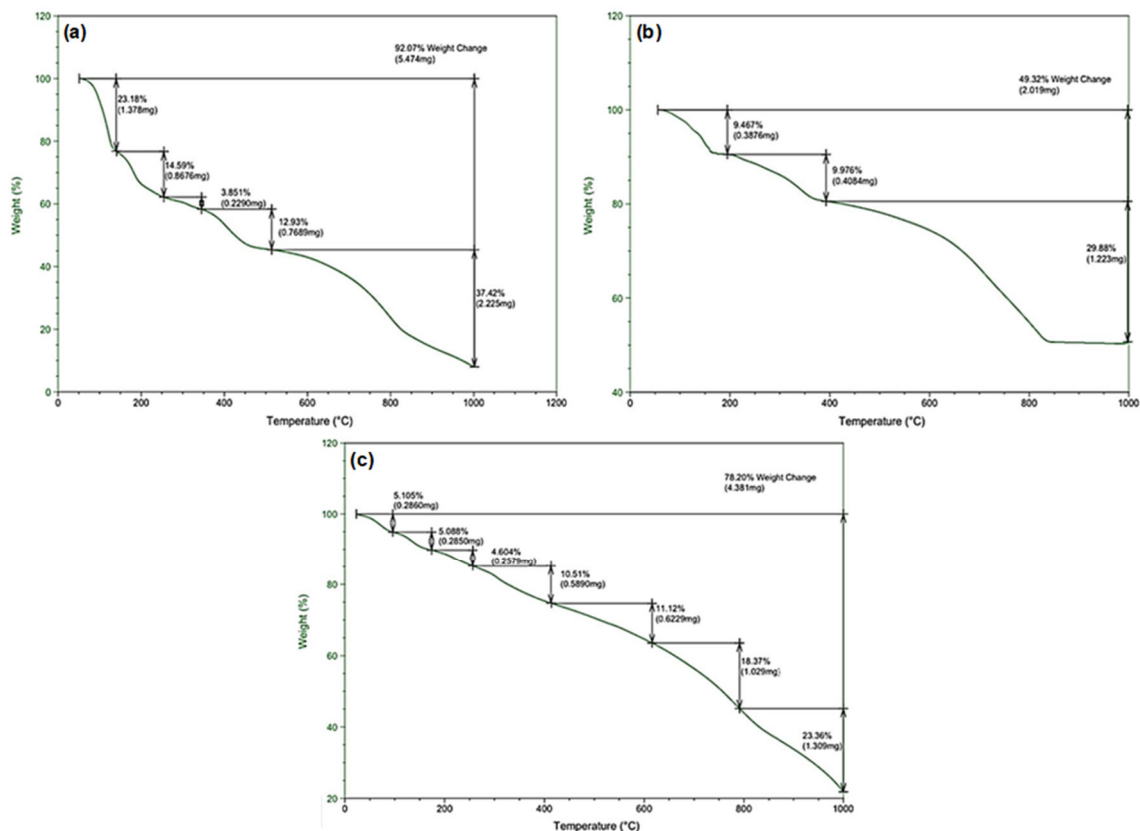


Fig S1. Thermal disintegration of (a) AAT ligand, (b)  $[Ag(AAT)(H_2O)_2]NO_3$ , and (c)  $[Cu(AAT)(H_2O)_3]Cl_2 \cdot H_2O$

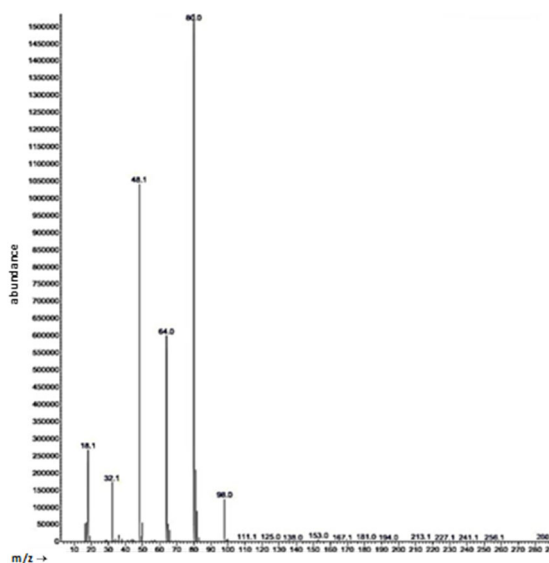


Fig S2. Mass spectrum of AAT ligand

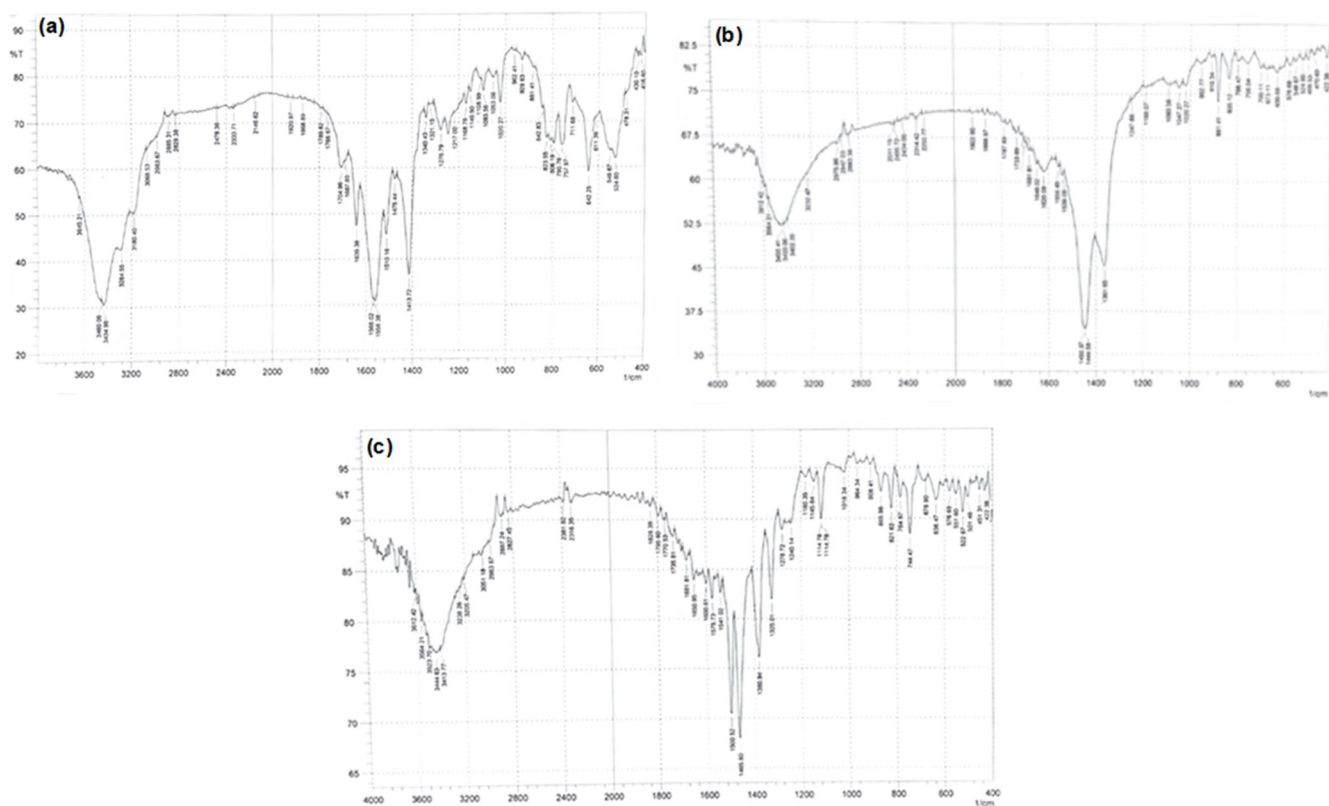


Fig S3. FTIR spectra of (a) AAT ligand, (b) [Ag(AAT)(H<sub>2</sub>O)<sub>2</sub>]NO<sub>3</sub>, and (c) [Cu(AAT)(H<sub>2</sub>O)<sub>3</sub>]Cl<sub>2</sub>·H<sub>2</sub>O

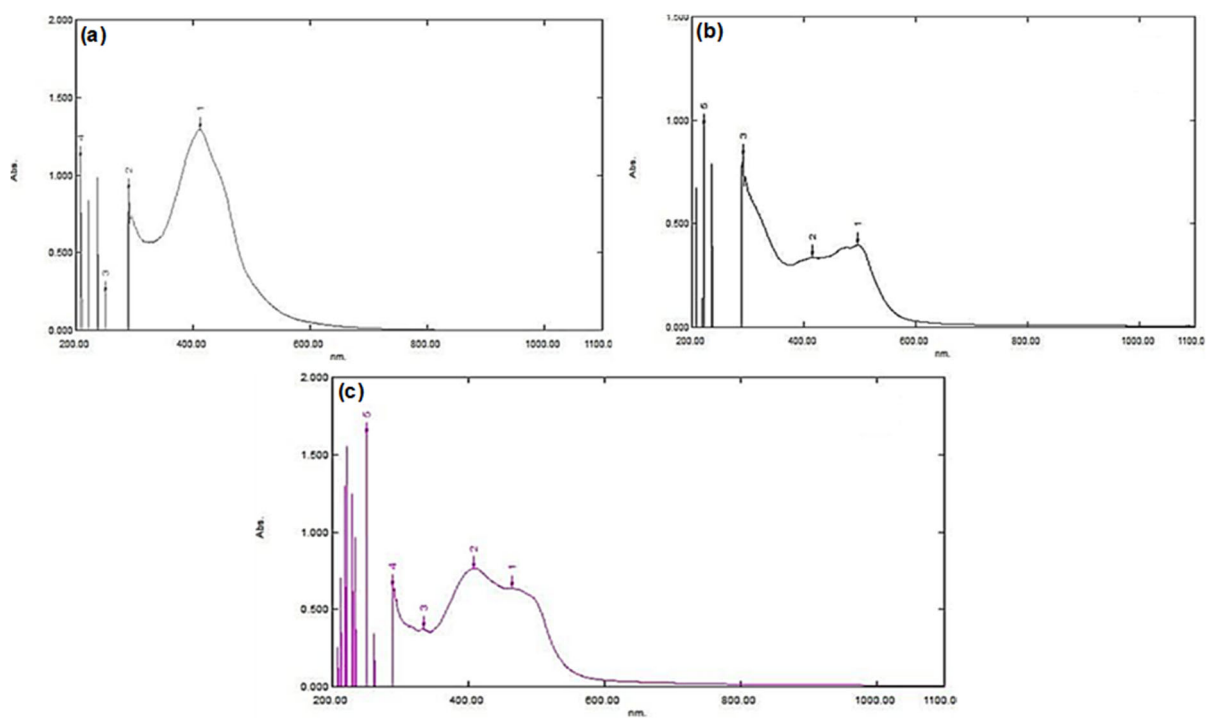


Fig S4. Electronic spectra of (a) AAT ligand, (b) [Ag(AAT)(H<sub>2</sub>O)<sub>2</sub>]NO<sub>3</sub>, and (c) [Cu(AAT)(H<sub>2</sub>O)<sub>3</sub>]Cl<sub>2</sub>·H<sub>2</sub>O

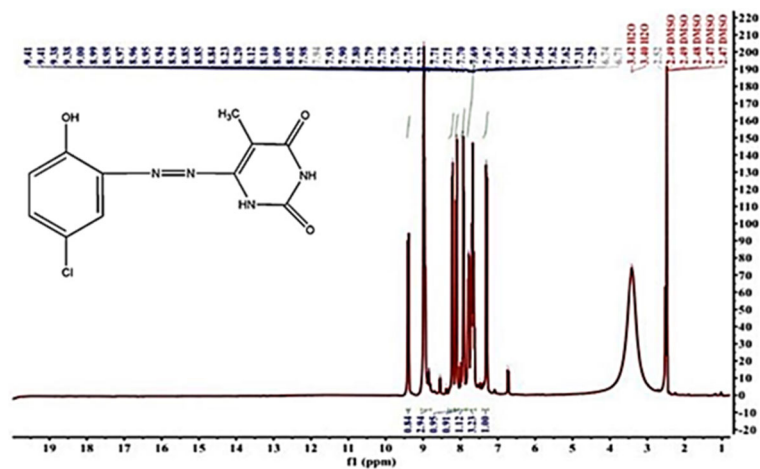


Fig S5. <sup>1</sup>H-NMR spectrum of AAT ligand

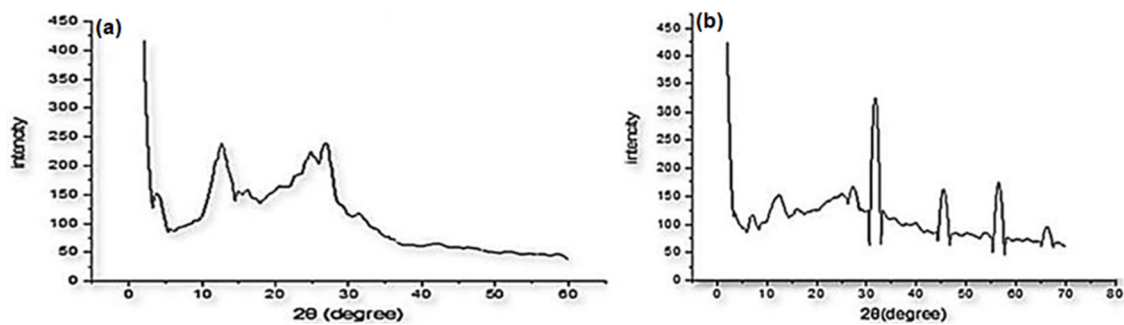


Fig S6. XRD spectra for (a) AAT and (b) [Cu(ATT)(H<sub>2</sub>O)<sub>3</sub>]Cl<sub>2</sub>·H<sub>2</sub>O

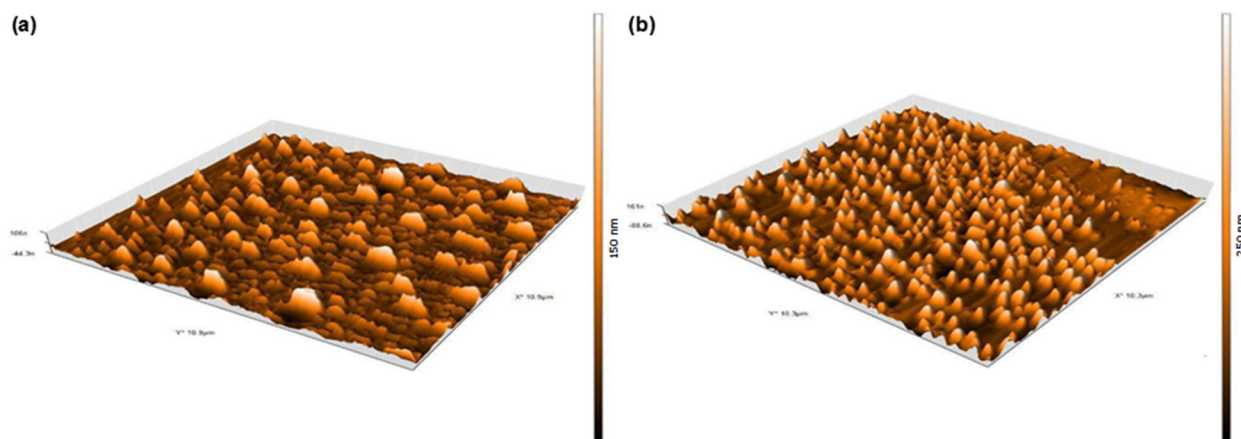


Fig S7. AFM surface for (a) AAT and (b) [Cu(ATT)(H<sub>2</sub>O)<sub>3</sub>]Cl<sub>2</sub>·H<sub>2</sub>O

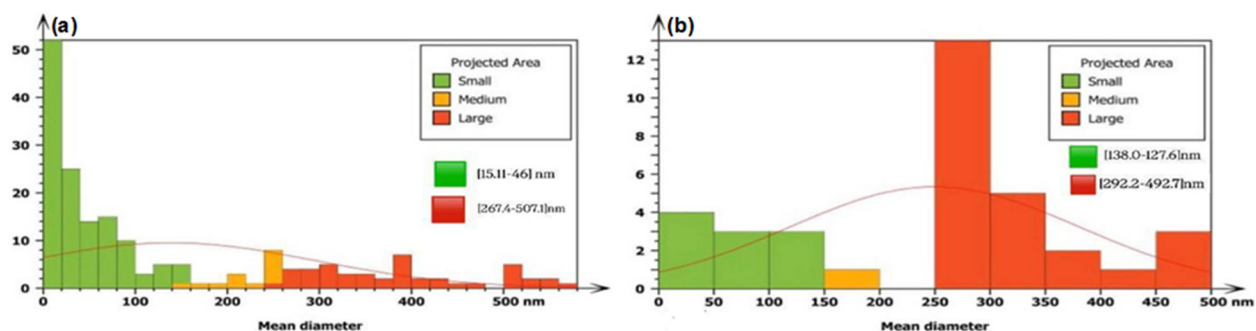


Fig S8. Histogram and statistical particles analyses of (a) AAT and (b)  $[\text{Cu}(\text{ATT})(\text{H}_2\text{O})_3]\text{Cl}_2 \cdot \text{H}_2\text{O}$

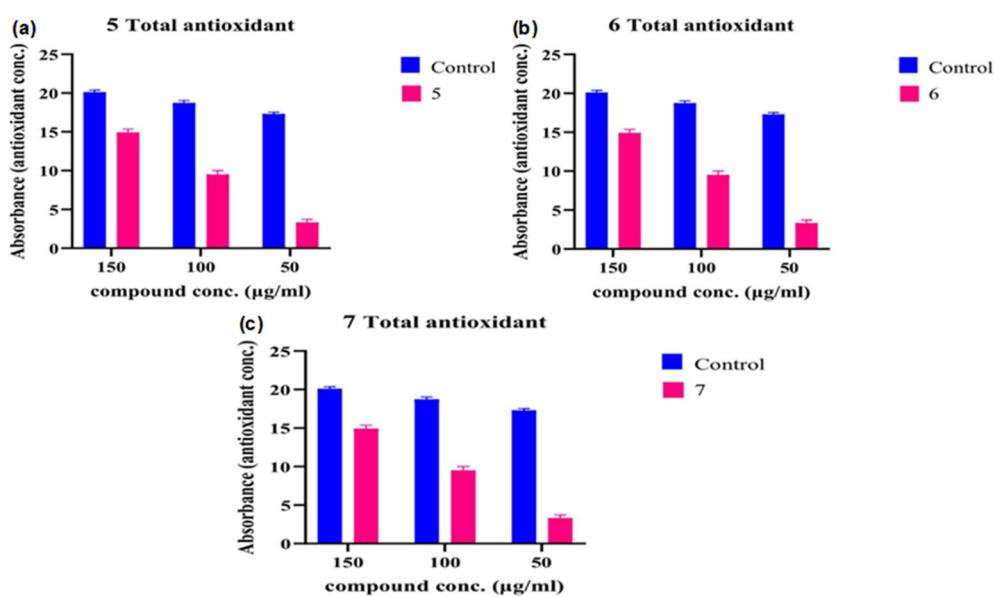


Fig S9. Antioxidant activity of (a) AAT, (b) for  $[\text{Ag}(\text{AAT})(\text{H}_2\text{O})_2]\text{NO}_3$ , and (c) for  $[\text{Cu}(\text{AAT})(\text{H}_2\text{O})_3]\text{Cl}_2 \cdot \text{H}_2\text{O}$

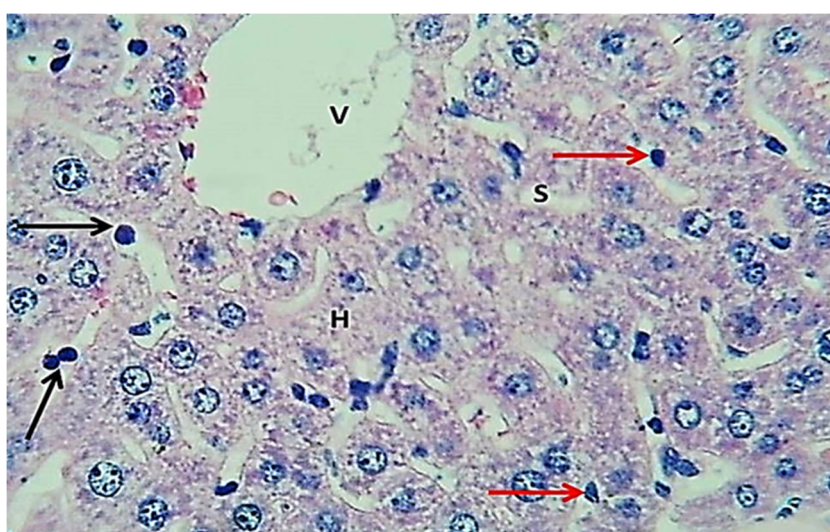
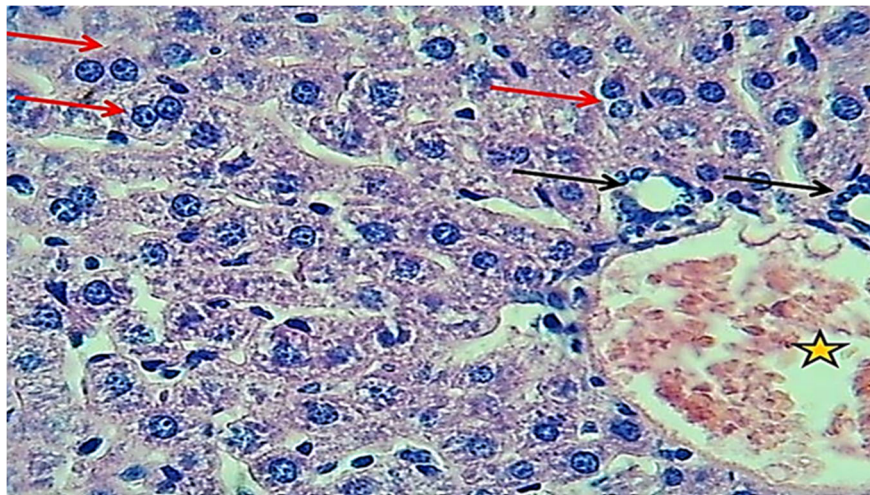


Fig S10. Section of liver (-ve control) shows normal central vein (V), hepatocytes (H), sinusoid (S), Kupffer cells (red arrow), mononuclear leukocytes (black arrows). H&E stain. 400 $\times$



**Fig S11.** Section of  $\text{Cu}(\text{ATT})(\text{H}_2\text{O})_3\text{Cl}_2 \cdot \text{H}_2\text{O}$  shows mild congestion of central vein (black arrows) and proliferation figures of the hepatocytes (red arrows). H&E stain. 400 $\times$