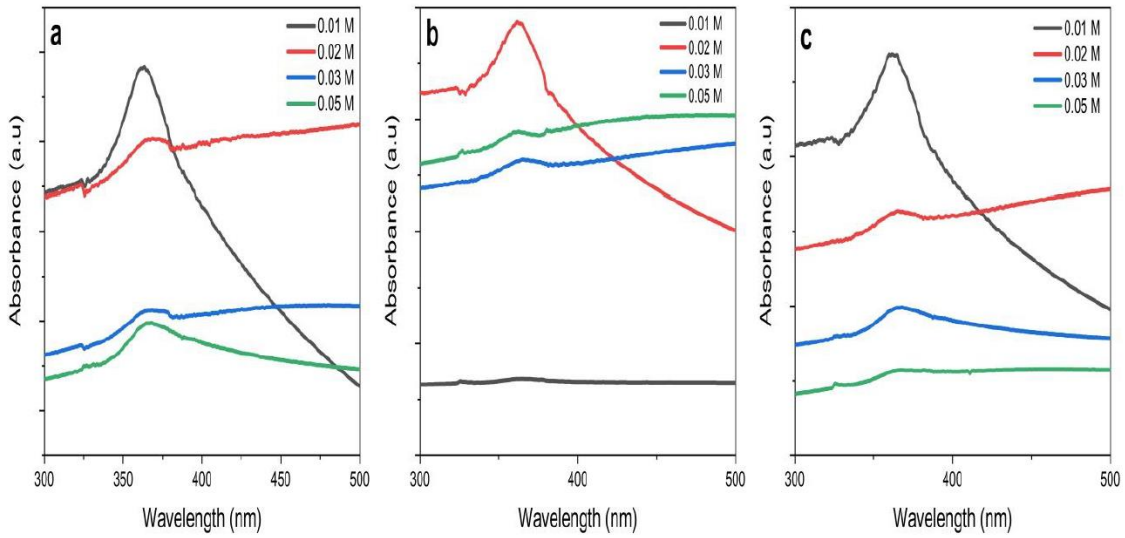

Figure S1. Effect of [Zn(CH3COO)2].2H2O concentrations for the biosynthesis of ZnO NPs. (**a**) ZnO NPs/HIS; (**b**) ZnO NPs/HIL; (**c**) ZnONPs/HIF.

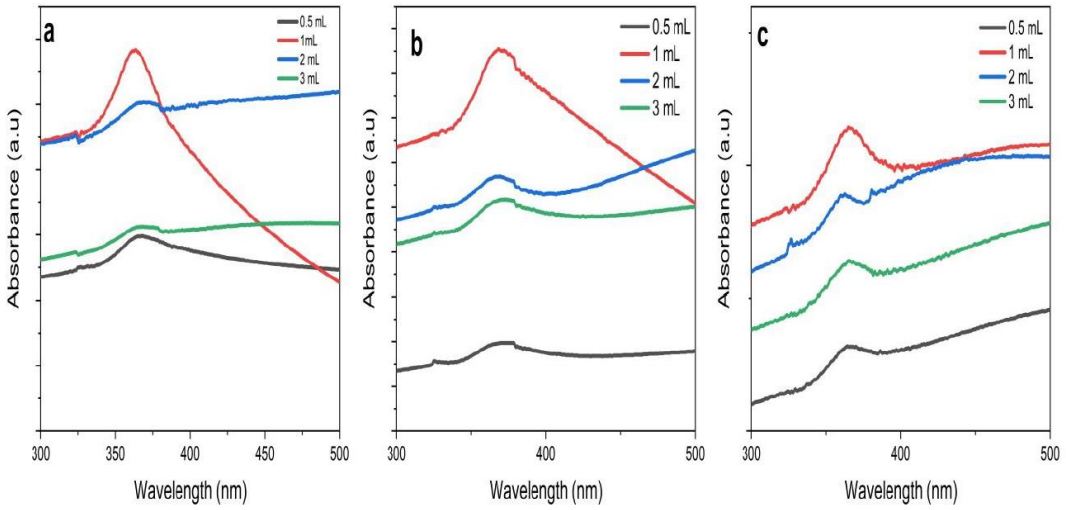

Figure S2. Effect of volume-dependent concentrations of plant extracts on ZnO NPs synthesis. (**a**) ZnO NPs/HIS; (**b**) ZnO NPs/HIL; (**c**) ZnO NPs/HIF.

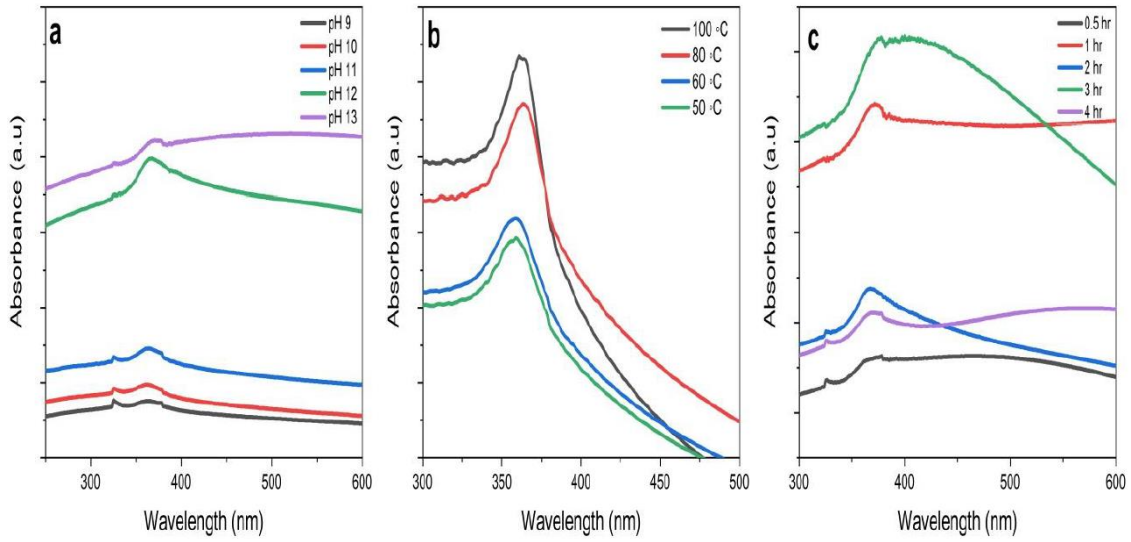

Figure S3. Effect of critical physical parameters for ZnO NPs/HIS synthesis. (**a**) ZnO NPs/HIS; (**b**) ZnO NPs/HIL; (**c**) ZnO NPs/HIF.

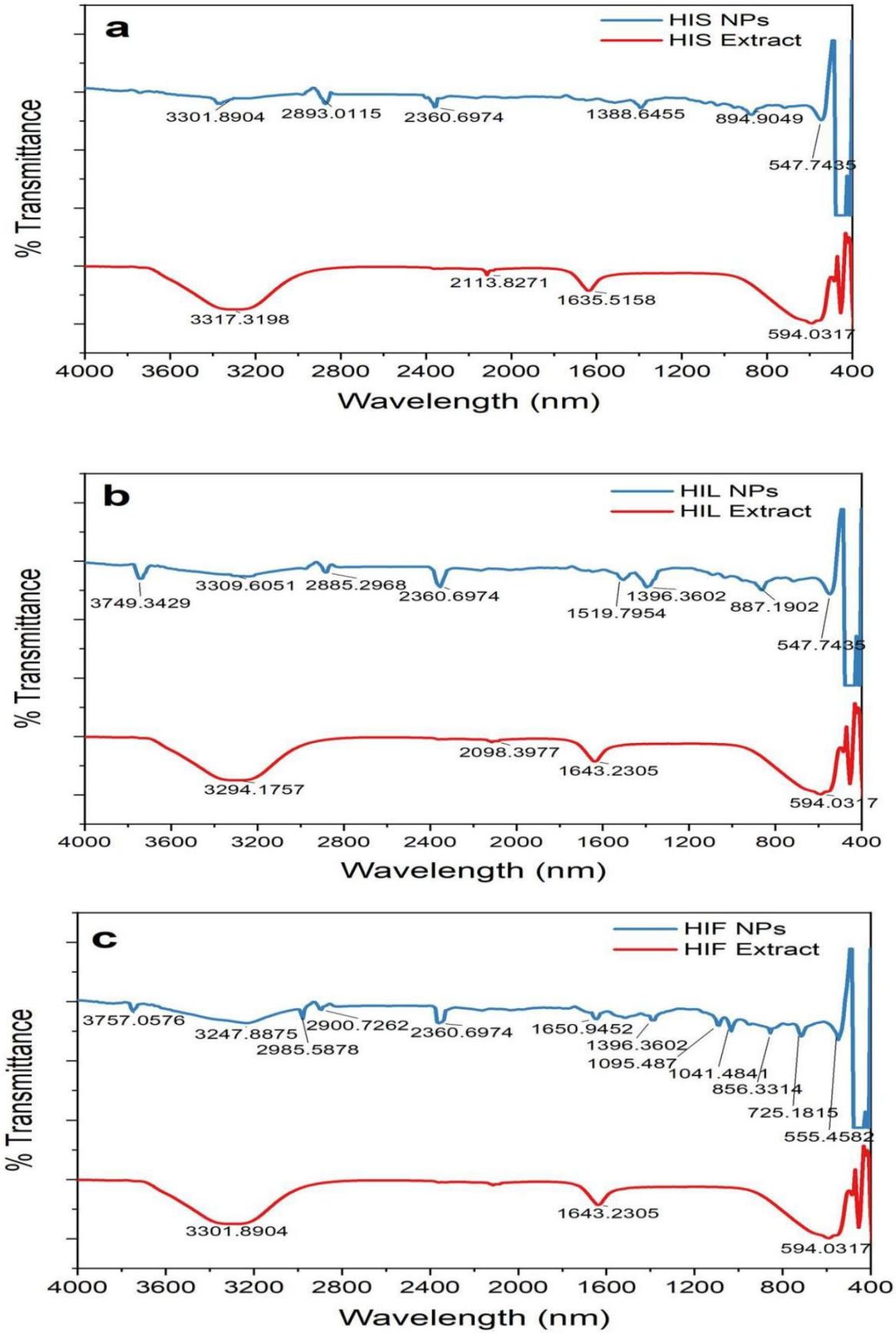

Figure S4. FTIR spectrograms of plant part, and derived extract mediated ZnO NPs. (**a**) ZnO NPs/HIS; (**b**) ZnO NPs/HIL; (**c**) ZnO NPs/HIF.