

Green Synthesis of *Illicium verum* derived novel semiconducting Ag/Fe/Cu-trimetallic nanocomposites: Dual functional platform for selective detection of pharmaceutical compounds and light independent degradation of organic dye

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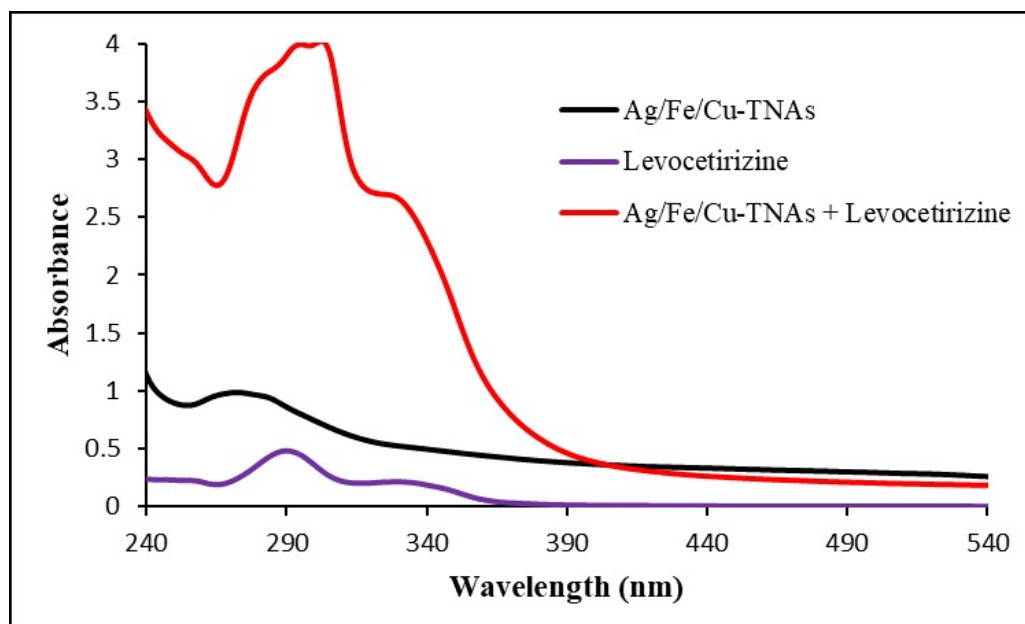


Fig. S1 Comparative UV-Visible spectra of Ag/Fe/Cu-TNAs, Levocetirizine and interaction between them

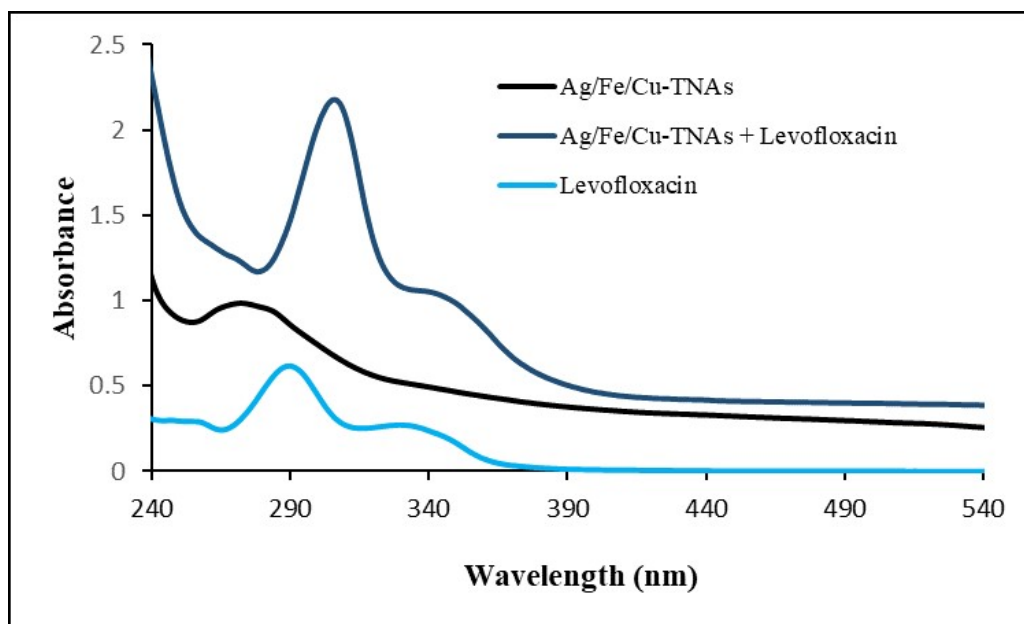


Fig. S2 Comparative UV-Visible spectra of Ag/Fe/Cu-TNAs, Levofloxacin and interaction between them

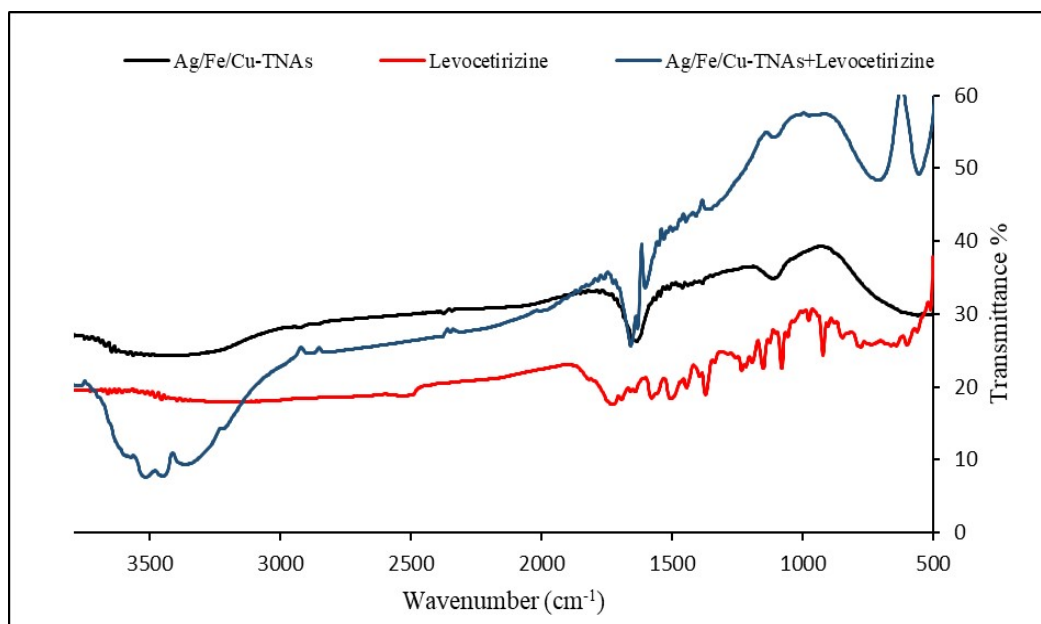


Fig. S3 Comparative FT-IR spectra of Ag/Fe/Cu-TNAs, Levocetirizine and interaction between them

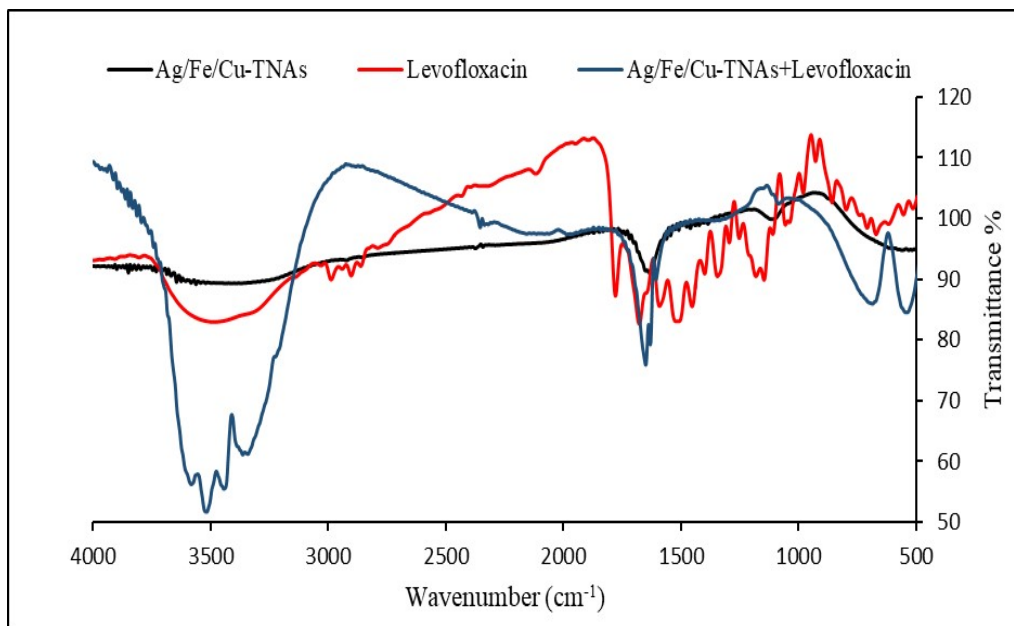


Fig. S4 Comparative FT-IR spectra of Ag/Fe/Cu-TNAs, Levocetirizine and interaction between them

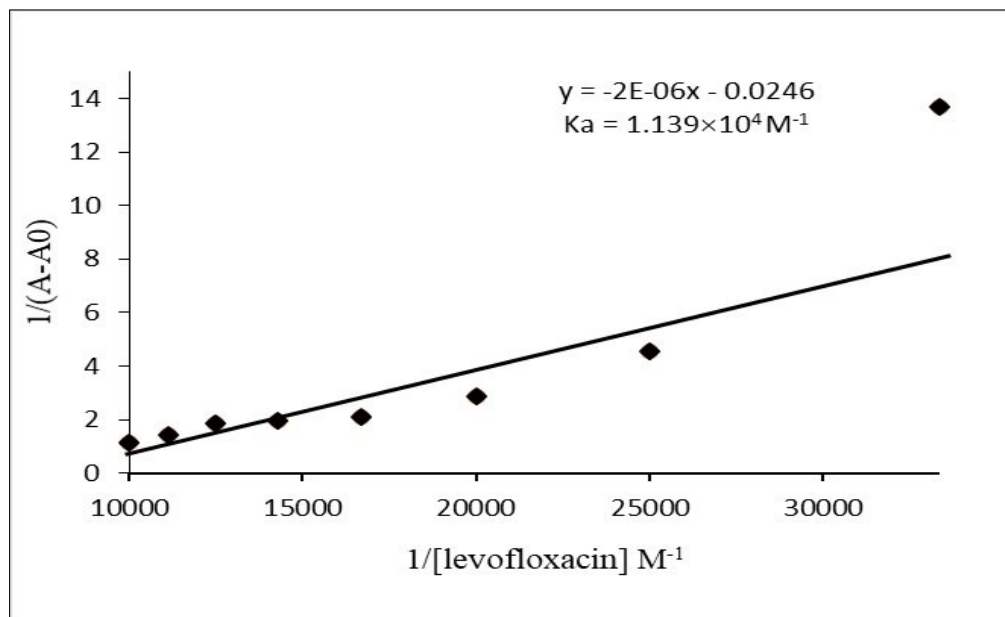


Fig. S5 Binding constant for the interaction between levofloxacin and Ag/Fe/Cu-TNAs measured by using

Benesi Hildebrand equation

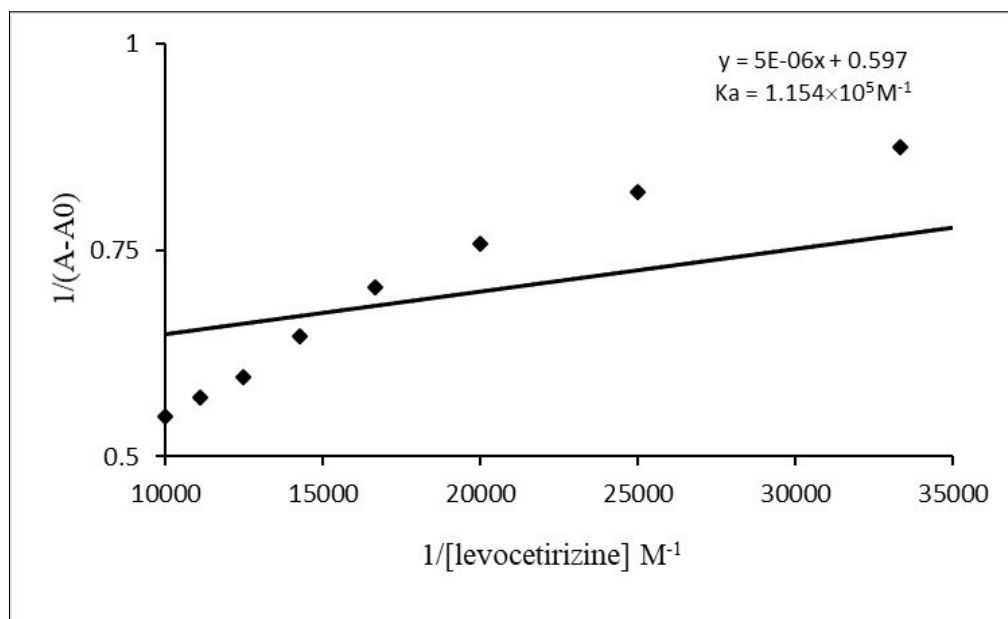


Fig. S6 Binding constant for the interaction between levocetirizine and Ag/Fe/Cu-TNAs measured by

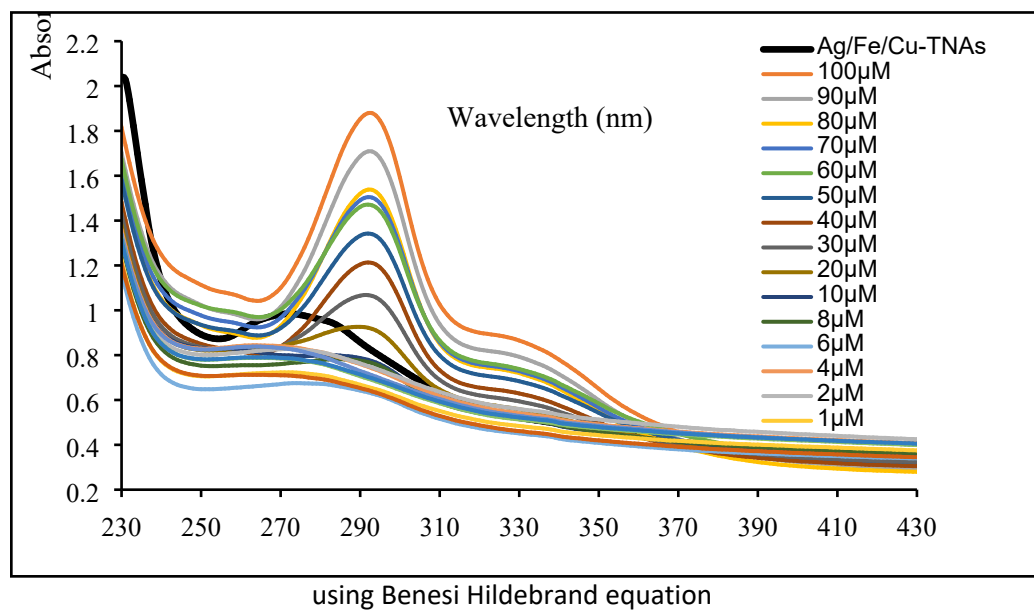


Fig. S7 Absorbance of levofloxacin-Ag/Fe/Cu-TNAs assembly at decreasing concentrations

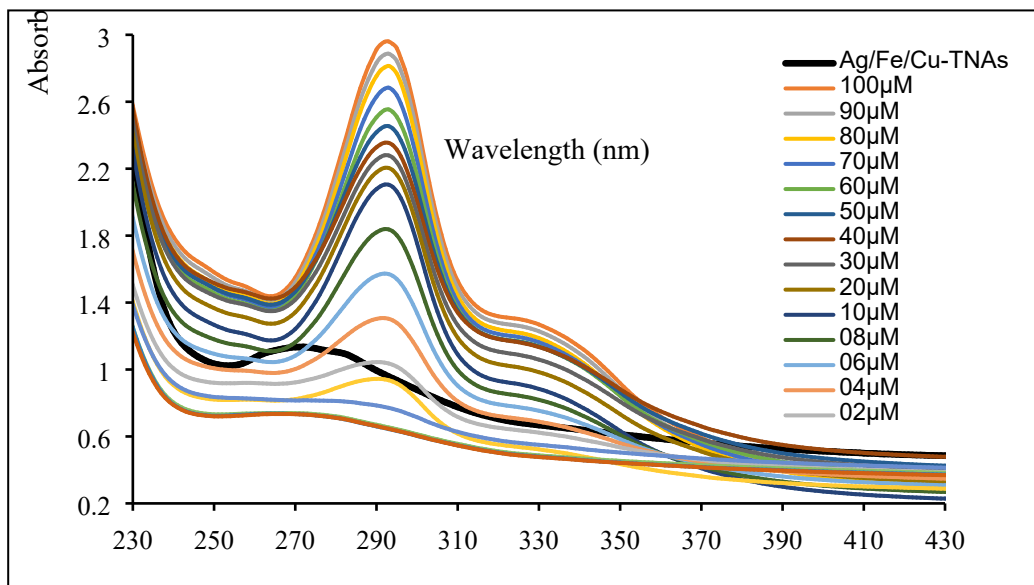


Fig. S8 Absorbance of levocetirizine-Ag/Fe/Cu-TNAs assembly at decreasing concentrations

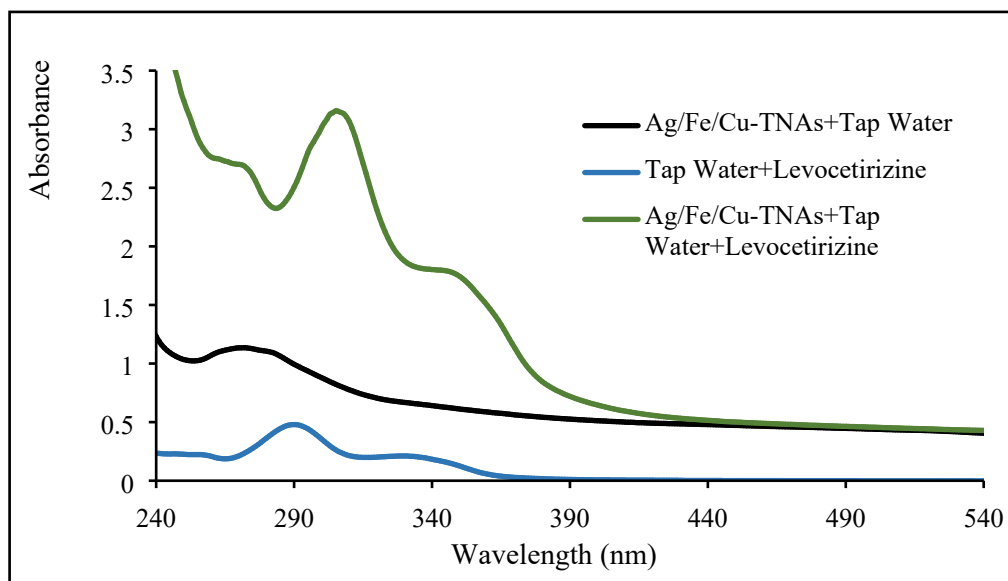


Fig. S9 Detection of levocetirizine in tap water

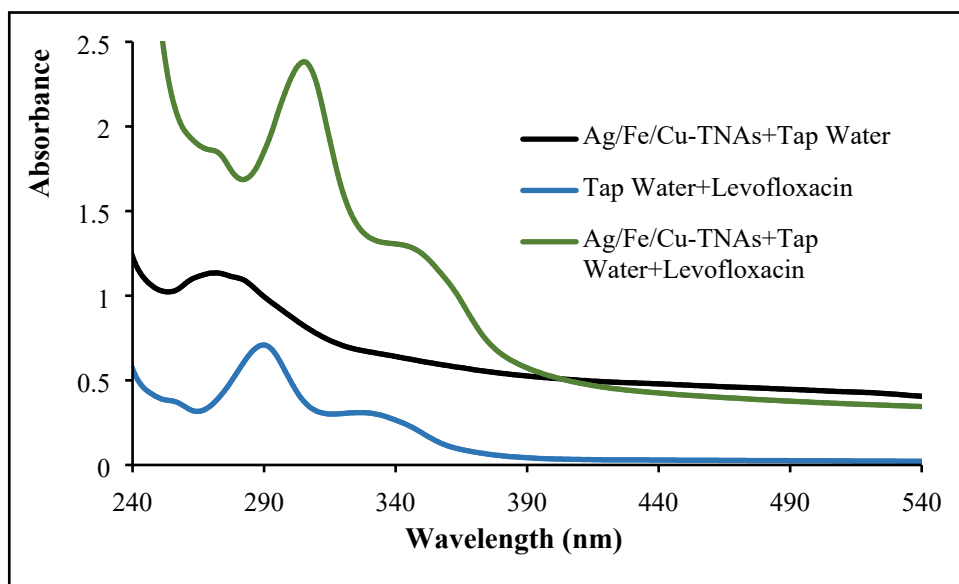


Fig. S10 Detection of levofloxacin in tap water

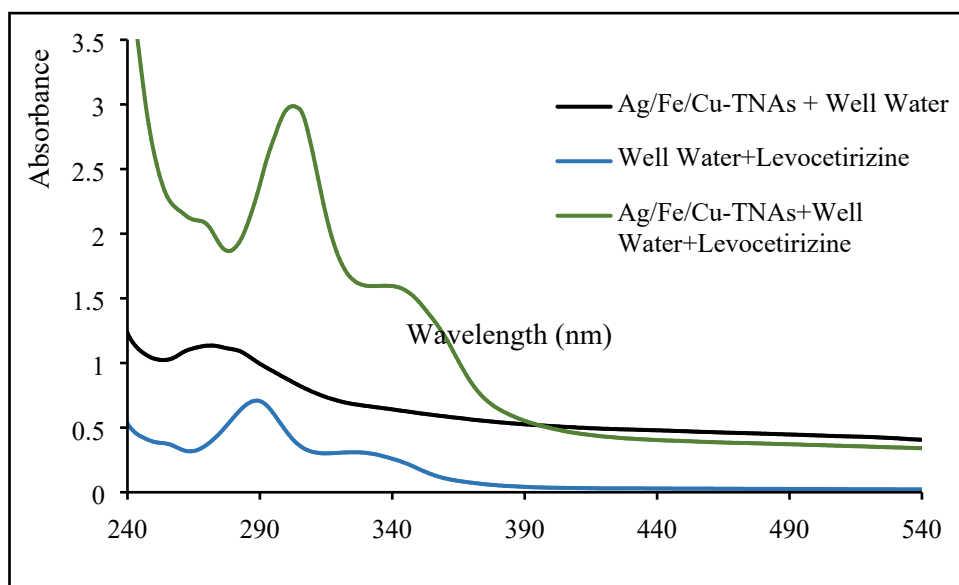


Fig. S11 Detection of levocetirizine in well water

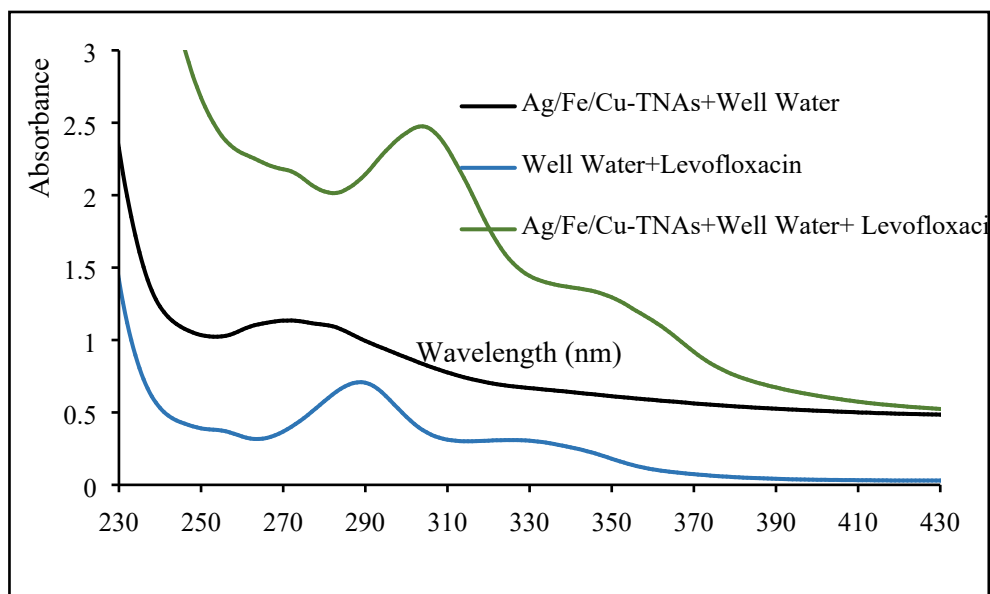


Fig. S12 Detection of levofloxacin in well water

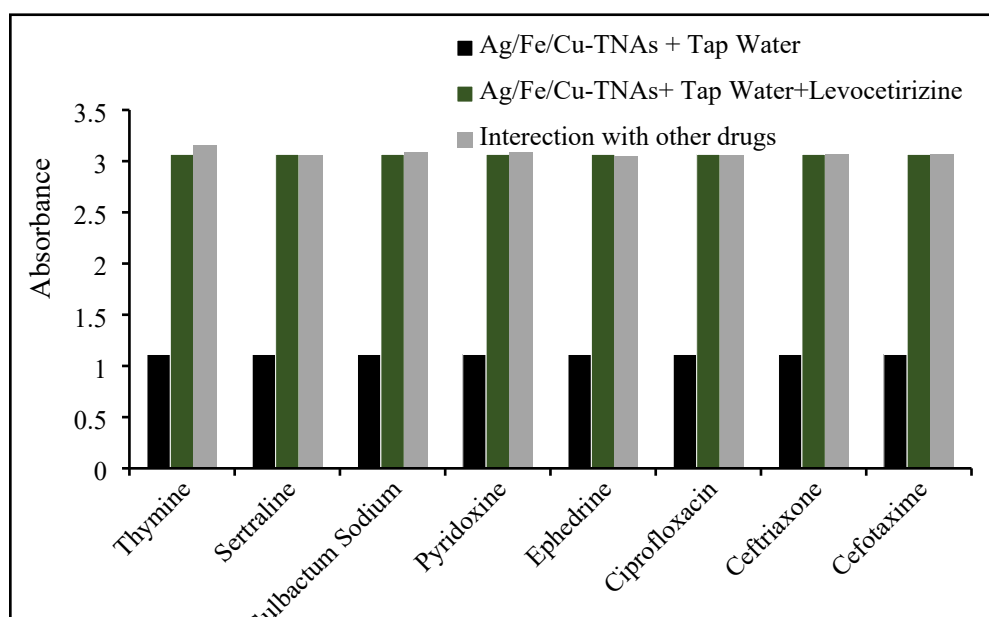


Fig. S13 Selectivity analysis for levocetirizine in tap water by Ag/Fe/Cu-TNAs

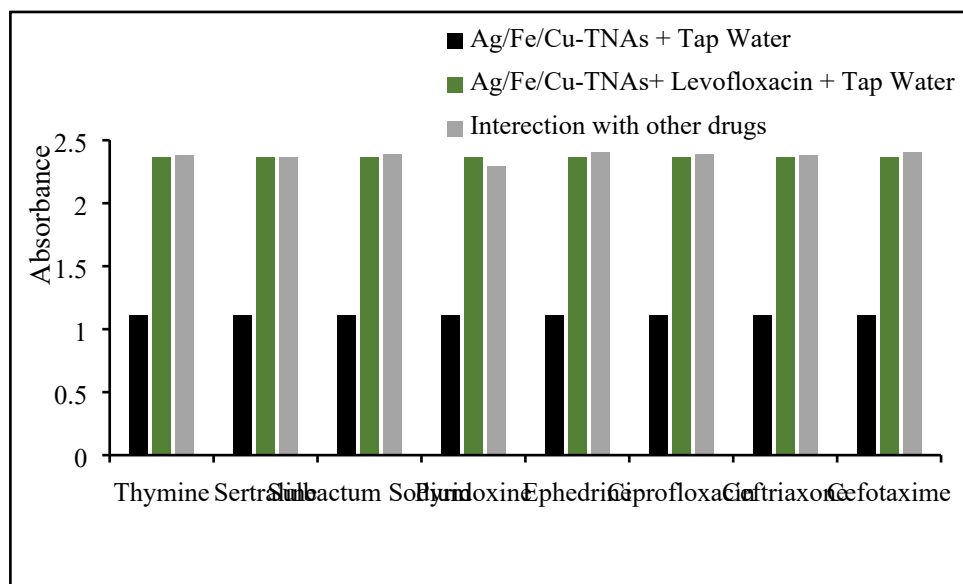


Fig. S14 Selectivity analysis for levofloxacin in tap water by Ag/Fe/Cu-TNAs

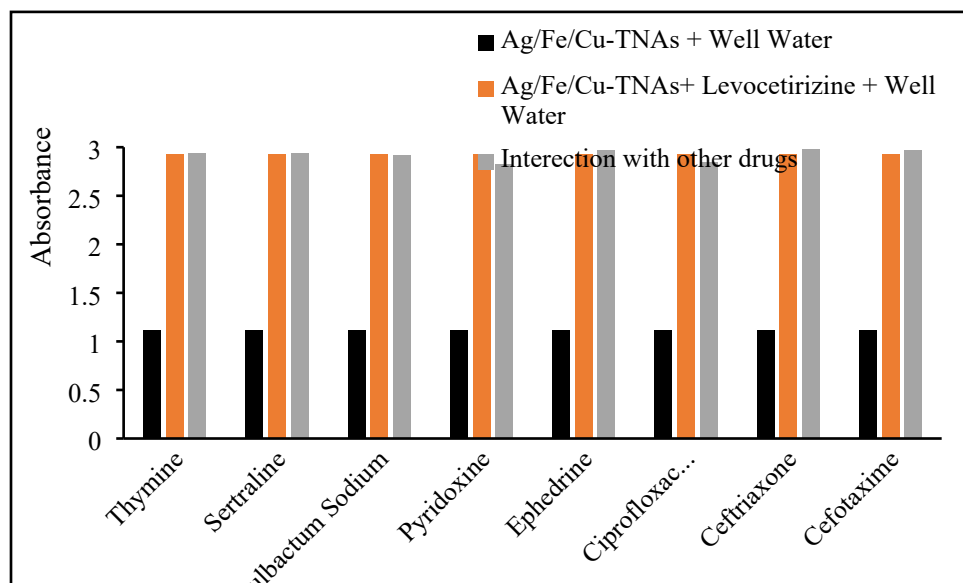


Fig. S15 Selectivity analysis for levocetirizine in well water by Ag/Fe/Cu-TNAs

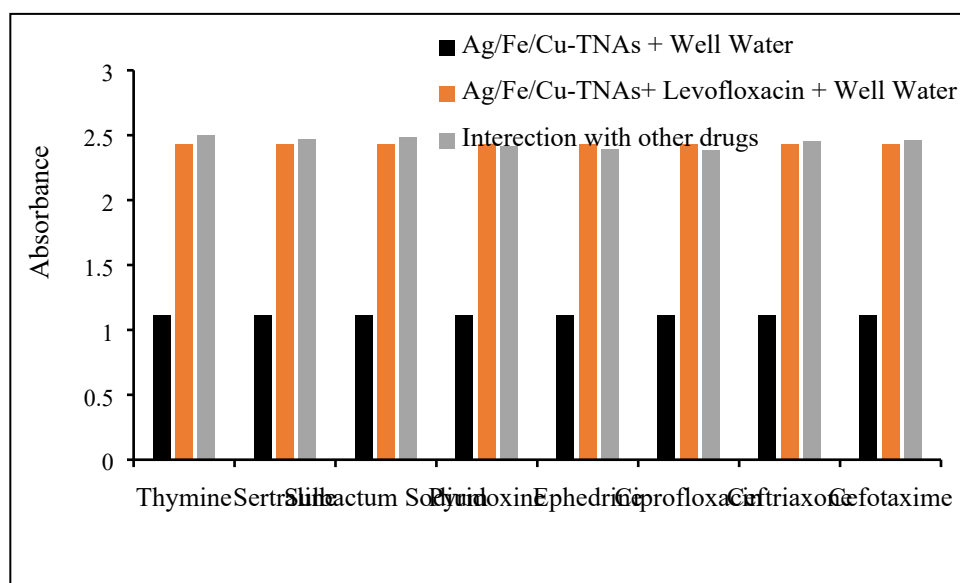


Fig. S16 Selectivity analysis for levofloxacin in well water by Ag/Fe/Cu-TNAs

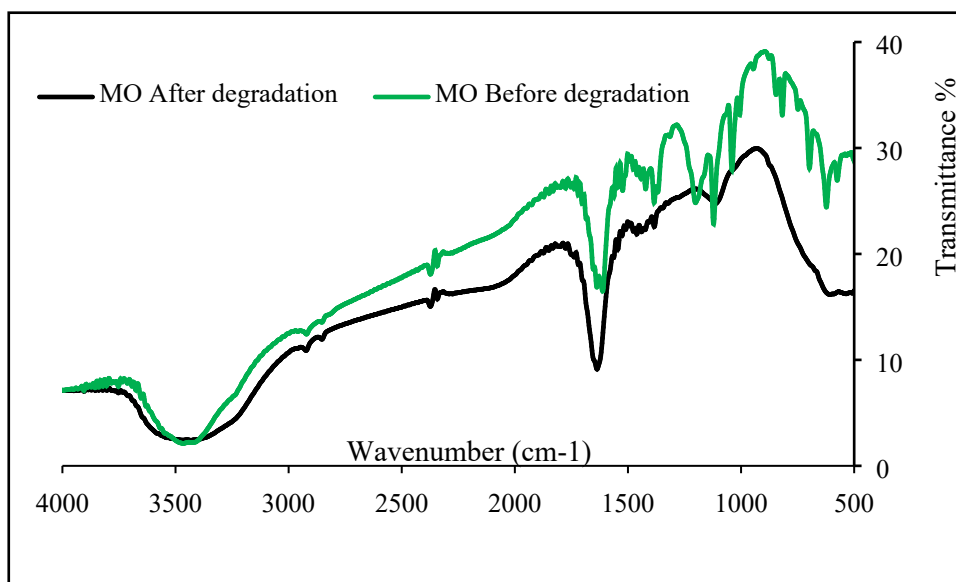


Fig. S17 Comparative FT-IR spectra of methyl orange before and after degradation in the presence of H_2O_2 and Ag/Fe/Cu-TNAs



Fig. S18 a) Salts solutions **b)** addition of *Illicium verum* fruit extract and **c)** greyish green colored Ag/Fe/Cu-TNAs