

Thiourea functionalized β -cyclodextrin as green reducing and stabilizing agent for silver nanocomposites with enhanced antimicrobial and antioxidant properties

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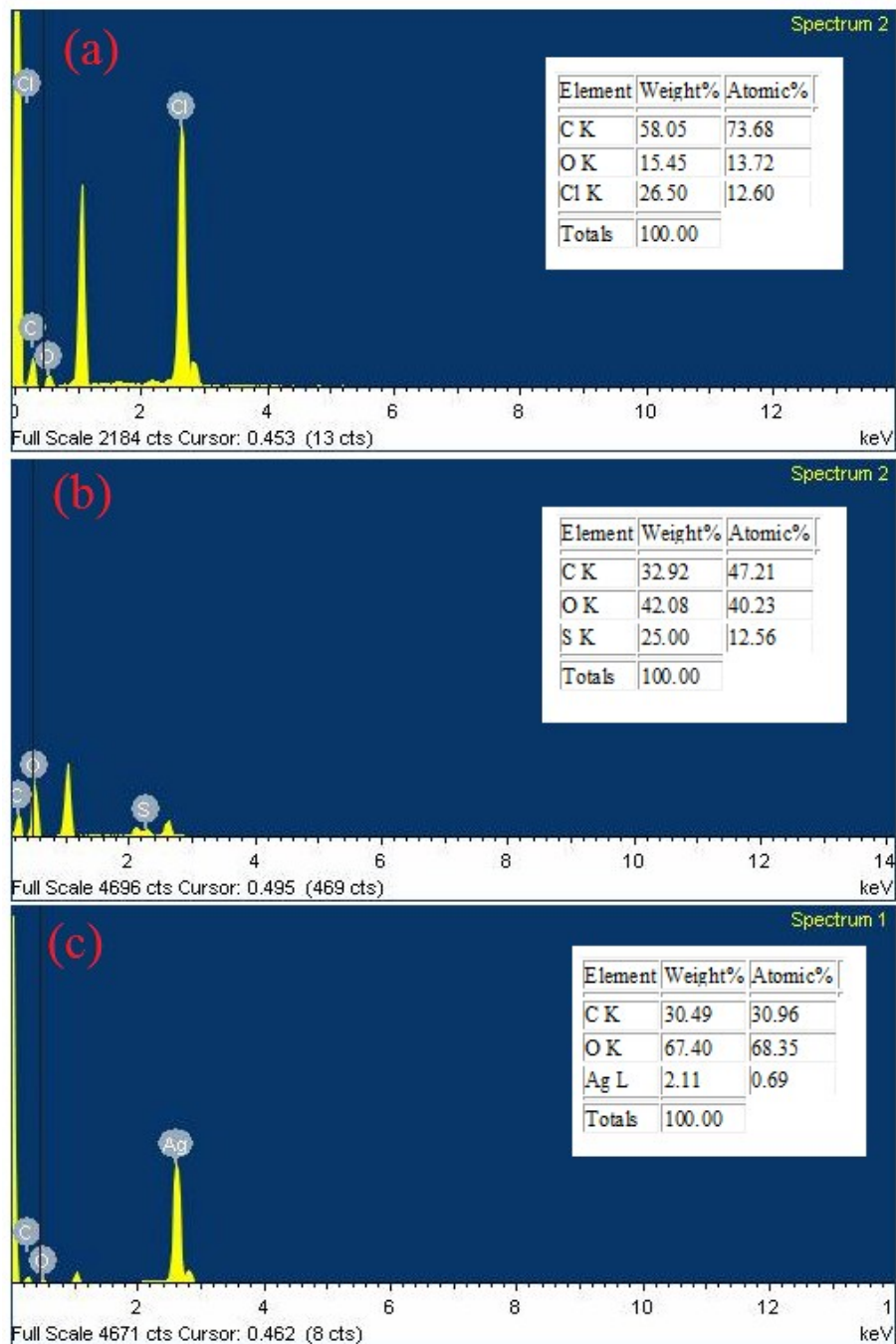


Fig. S1. EDX spectra of (a) β -CD-Cl-13 (b) β -CD -SH-13 and (c) β -CD -SH-Ag-13.

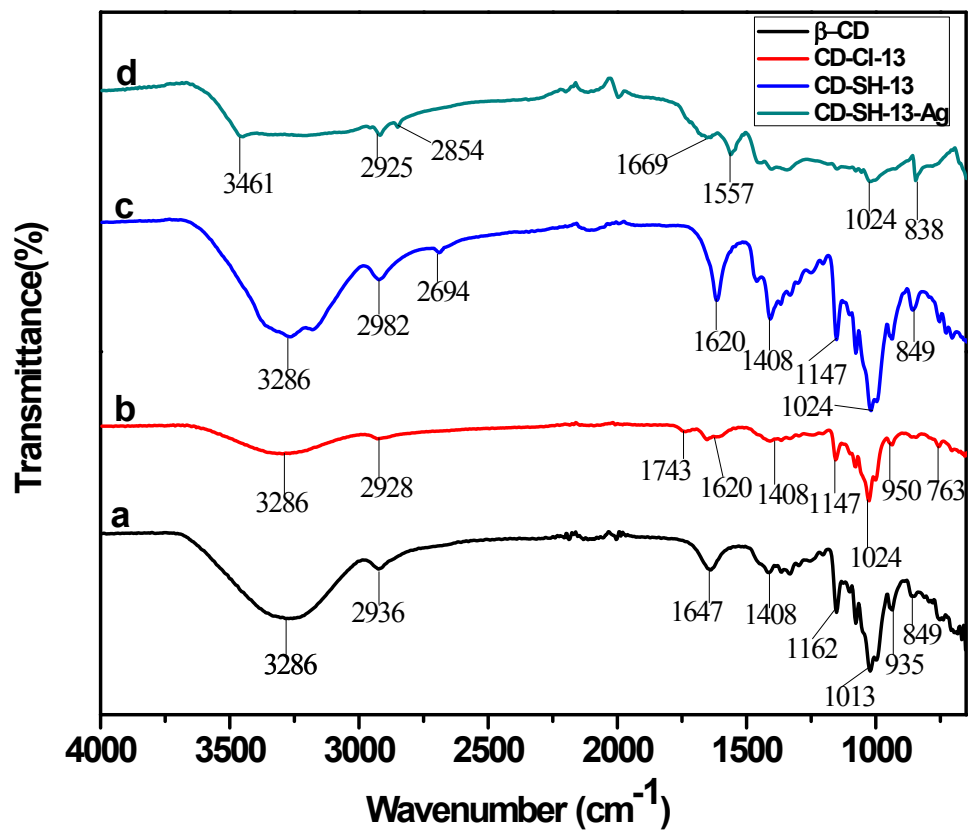


Fig. S2 FT-IR spectrum of (a) β -CD (b) β -CD-Cl-13 (c) β -CD-SH-13(d) β -CD-SH-Ag-13.

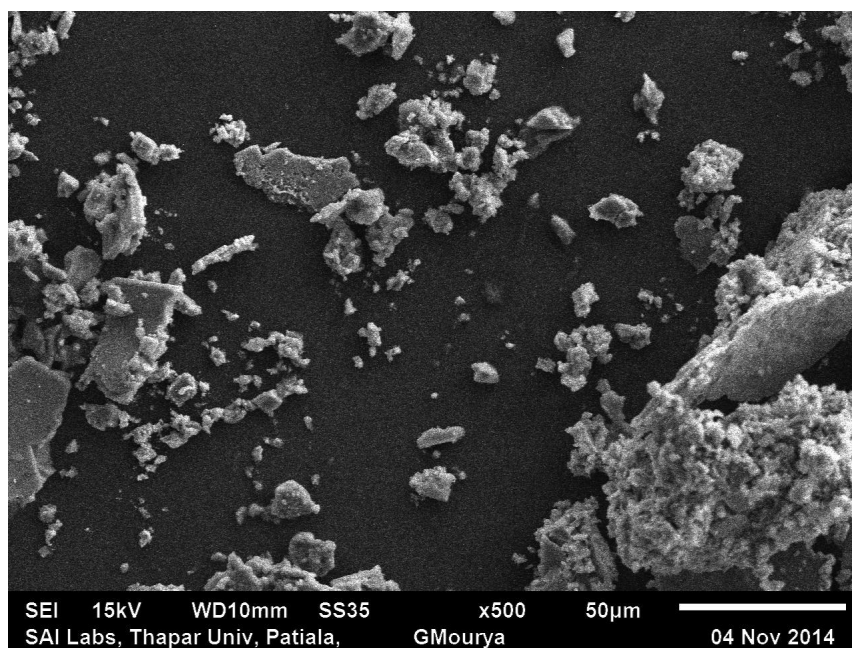


Fig. S3 SEM image of β -CD-Cl-Ag-13

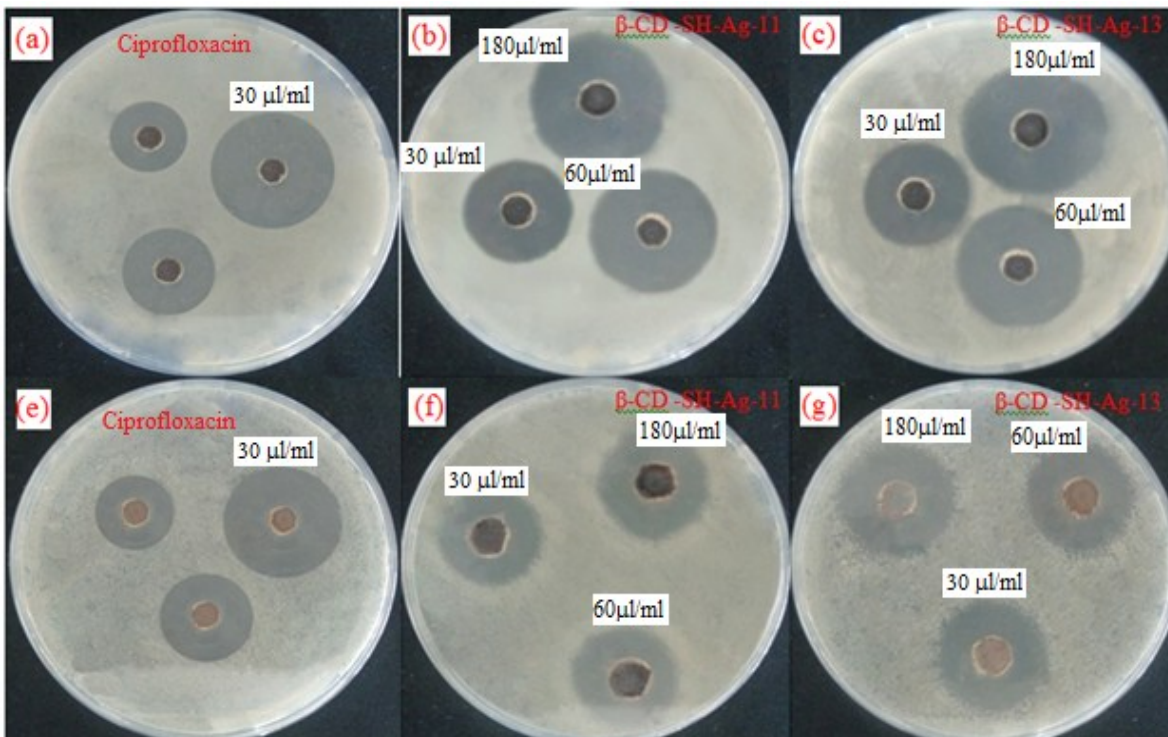


Fig. S4 Inhibition zone against *E. coli* in (a) ciprofloxacin (b) $\beta\text{-CD-SH-Ag-11}$ and (c) $\beta\text{-CD-SH-Ag-13}$; Inhibition zone against *S. aureus* (e) ciprofloxacin (f) $\beta\text{-CD-SH-Ag-11}$ and (g) $\beta\text{-CD-SH-Ag-13}$

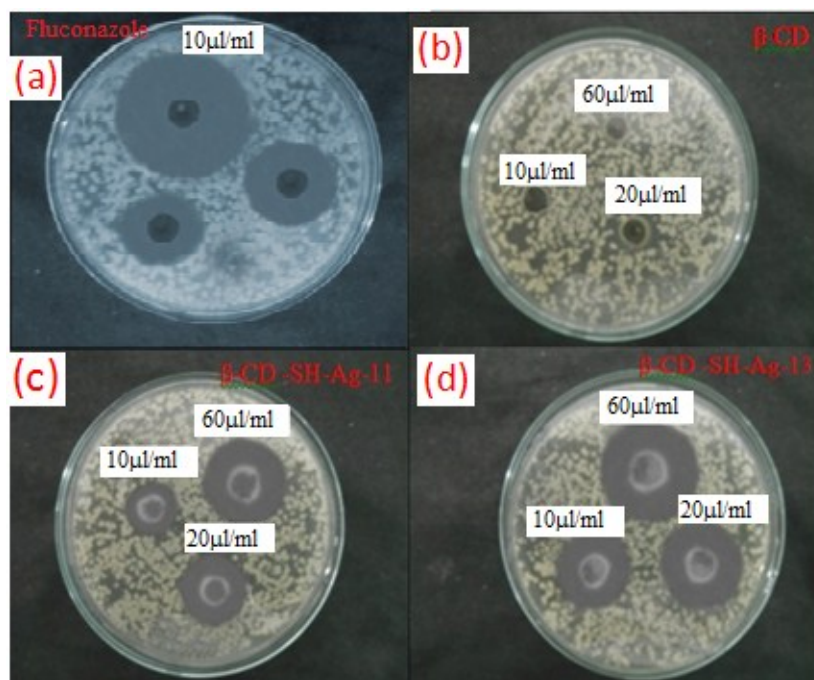


Fig. S5 Antifungal activity of (a) fluconazole (b) $\beta\text{-CD}$, (c) $\beta\text{-CD-SH-Ag-11}$ and (d) $\beta\text{-CD-SH-Ag-13}$ against *Candida albicans*