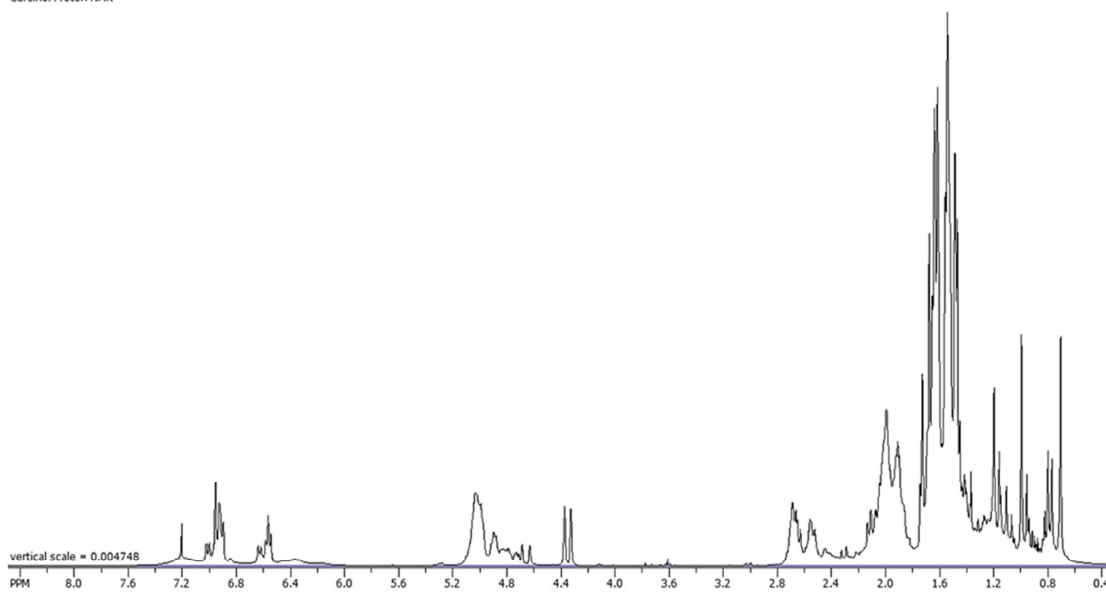




Fig. S1: (A) Garcinol dissolved in methanol, (B) G-AgNPs aqueous solution and (C) Chemically synthesized AgNPs aqueous solution.

A

Garcinol Proton NMR



B

Garcinol C13 NMR

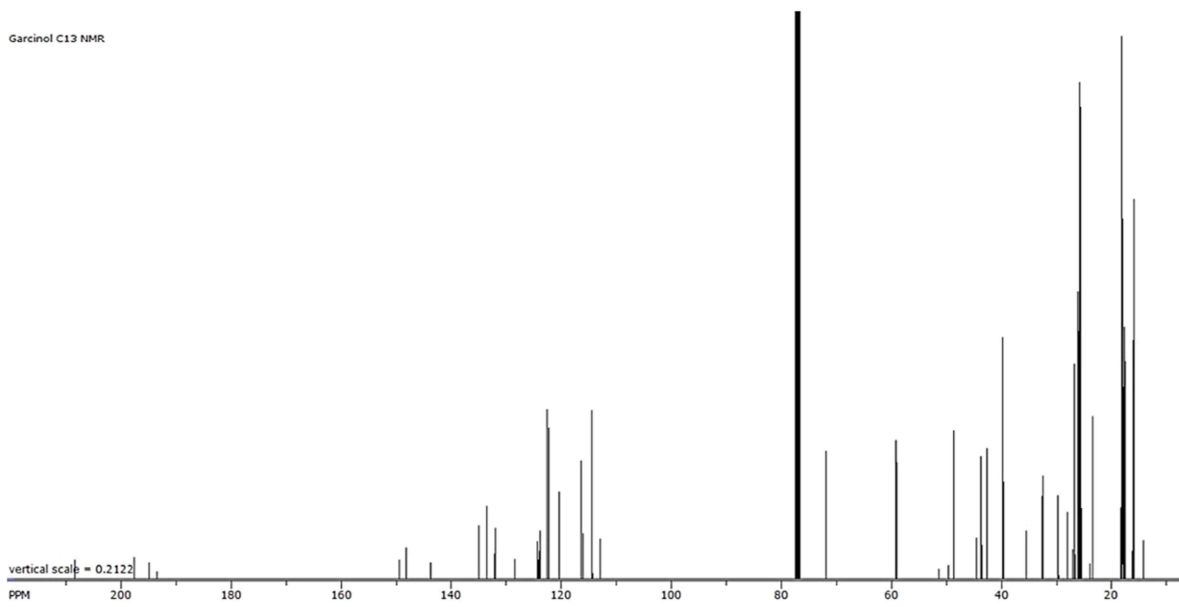


Fig. S2: (A) H^1 NMR of garcinol in $CDCl_3$ and (B) C^{13} NMR of garcinol in $CDCl_3$

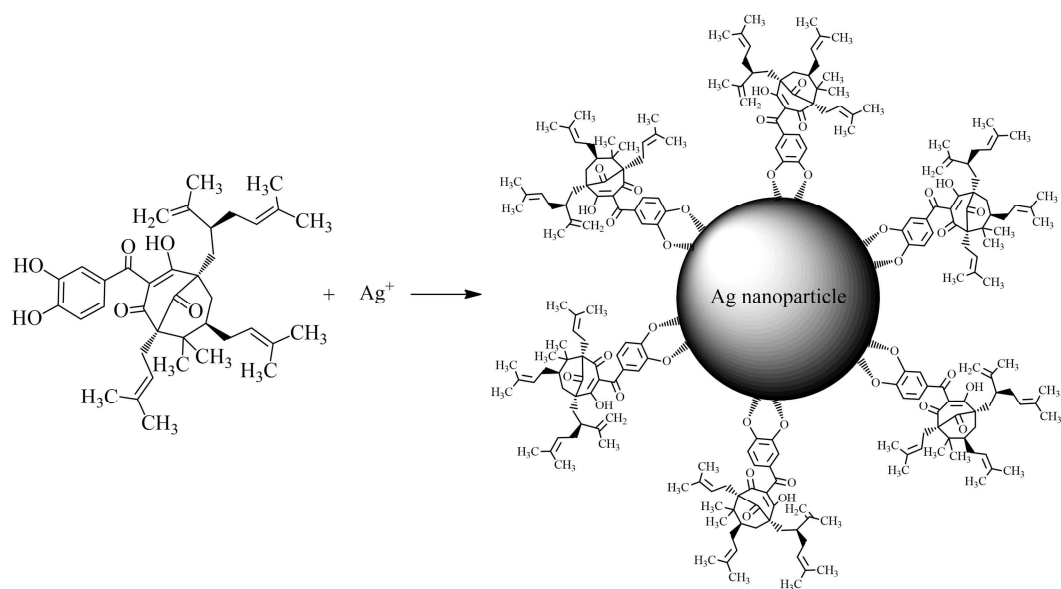


Fig. S3: Schematic diagram of garcinol stabilized AgNPs.

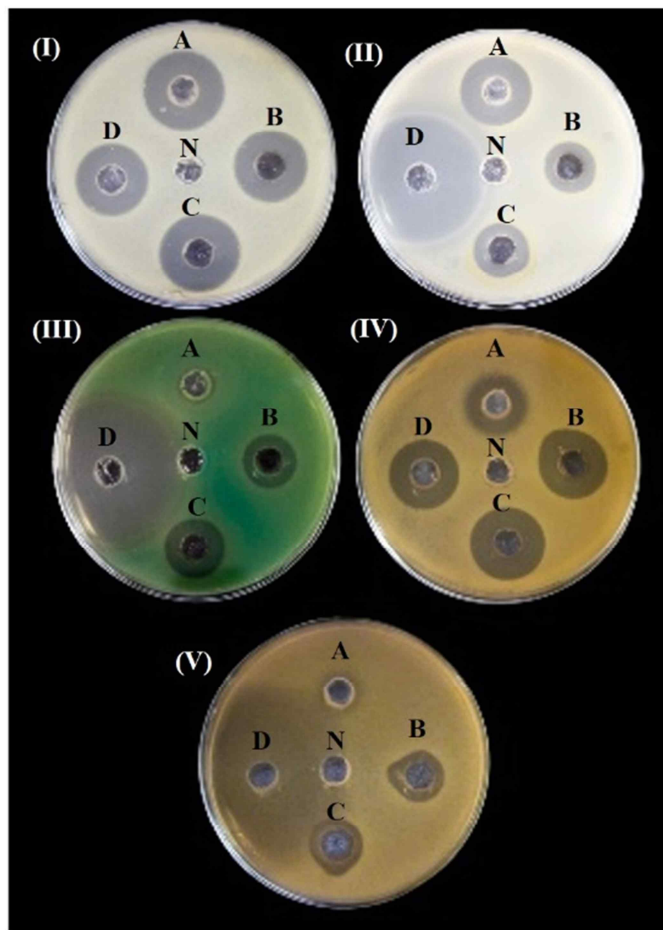


Fig. S4: Zone of inhibition observed against (i) MRSA, (ii) *S. aureus*, (iii) *P. aeruginosa*, (iv) *C. albicans* and (v) *E. coli* Where, (A) Garcinol, (B) G-AgNPs, (C) AgNPs, (D) Antibiotic and (N) Sterile Distilled water.

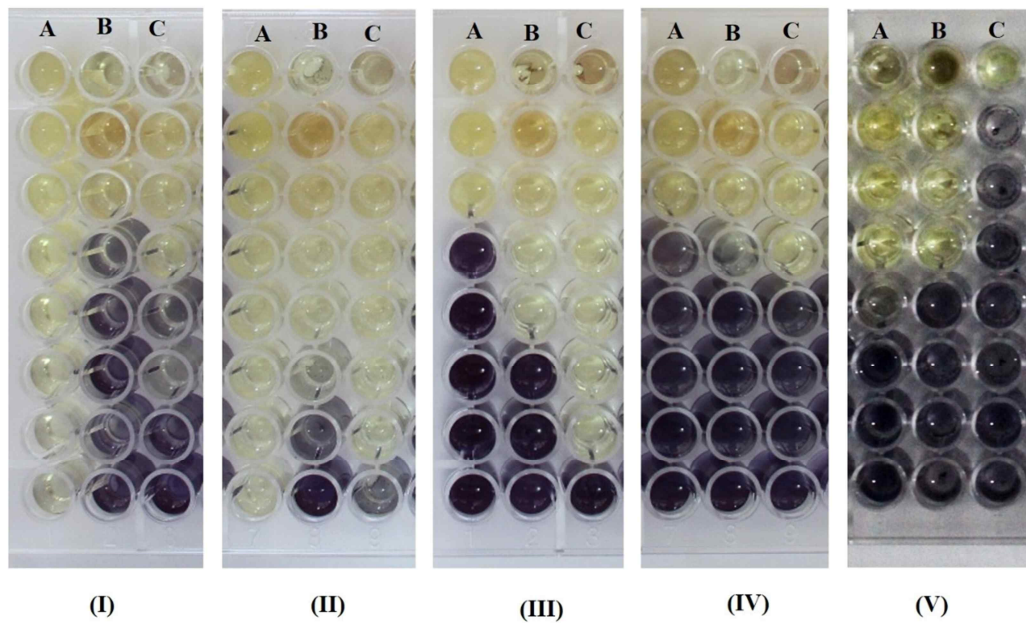


Fig. S5: Color change of MTT over microbial growth of (i) *S. aureus*, (ii) MRSA, (iii) *P. aeruginosa*, (iv) *E. coli* and (v) *C. albicans* Where, (A) Garcinol (500 $\mu\text{g/mL}$) , (B) G-AgNPs (400 $\mu\text{g/mL}$) and (C) AgNPs (200 $\mu\text{g/mL}$), Each well vertically indicates the double dilution concentration of each solution.