



ESI Fig 2(a)-(c): The cell viabilities of three bacterial strains after treatment with NiO, N_γ and N_z

The cell viabilities depict the bactericidal effect of N_z nanocomposite. It is evident from the Figure 2(a)-(c) that all the three bacteria were unable to grow right from the very beginning of the experiment till 24 hours. Though NiO and N_γ also has also shown inhibition of bacterial growth but a complete microbial control is achieved by N_z.