Electronic Supplementary Material (ESI) for RSC Advances.

Preparation and characterization of ferromagnetic nickel oxide nanoparticles from three different precursors: Application in drug delivery

Electronic supplementary information (ESI)

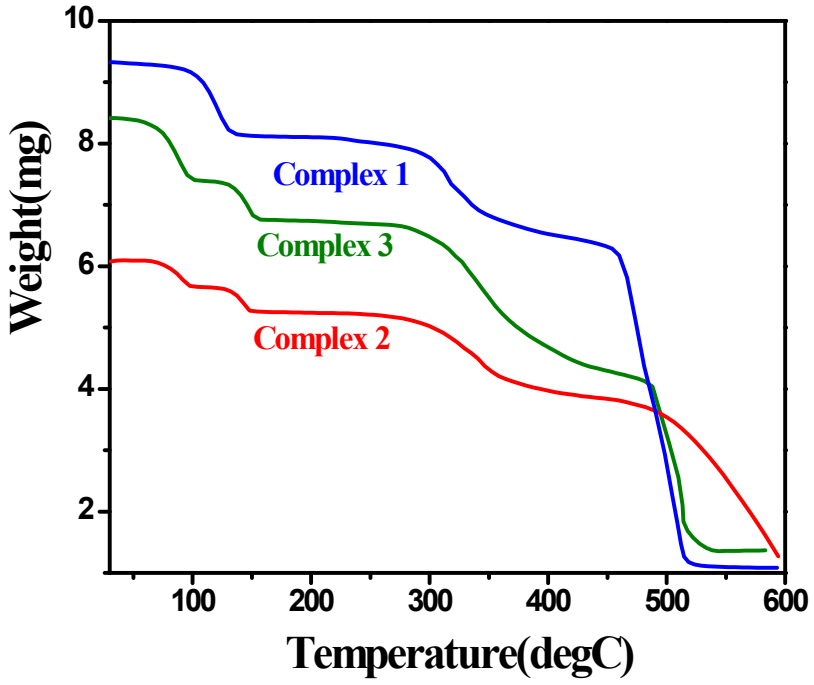

Fig. S1 TGA diagram of Complex **1-3**.

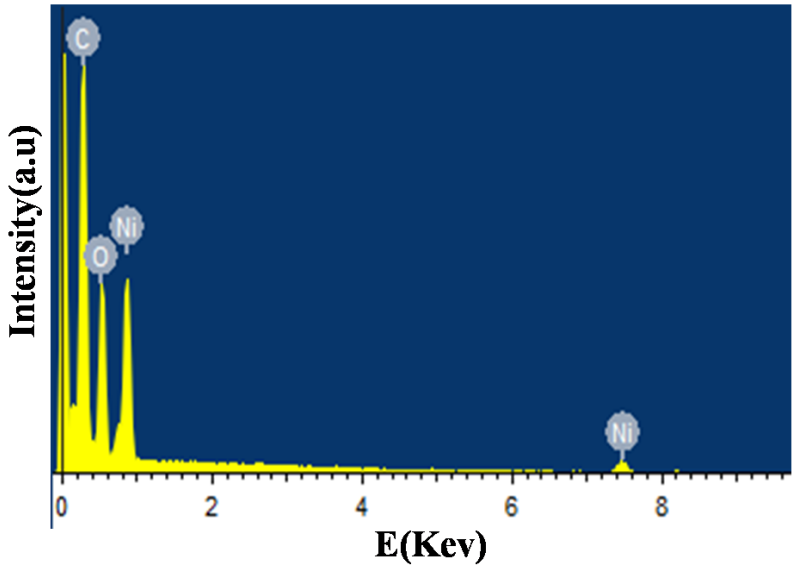

Fig. S2. EDX spectrum of the NiO-(Br) nanoparticles.

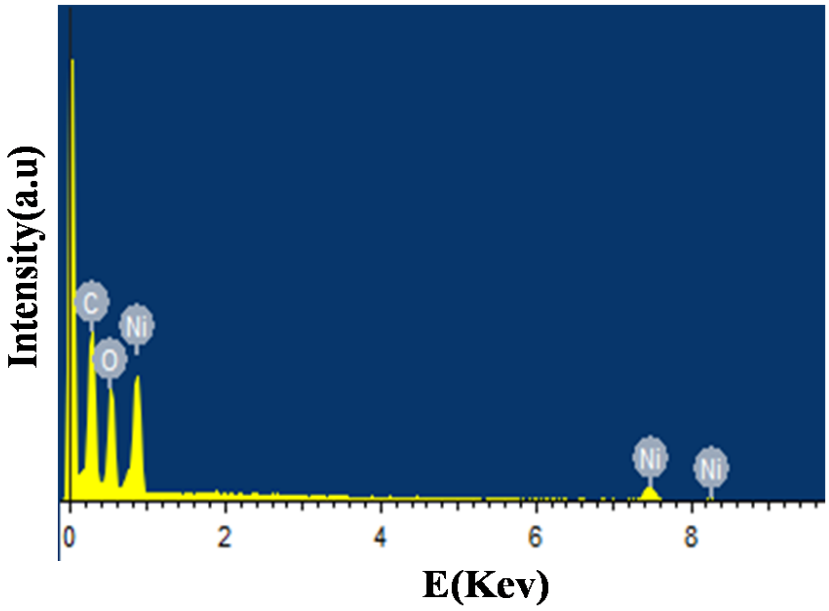

Fig. S3. EDX spectrum of the NiO-(Cl) nanoparticles.

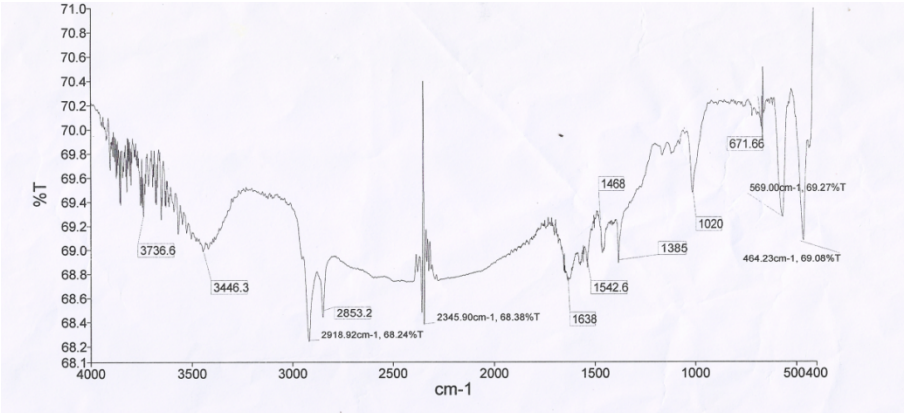

Fig. S4. FTIR spectrum of the Erythromycine conjugated NiO-(I) nanoparticles.

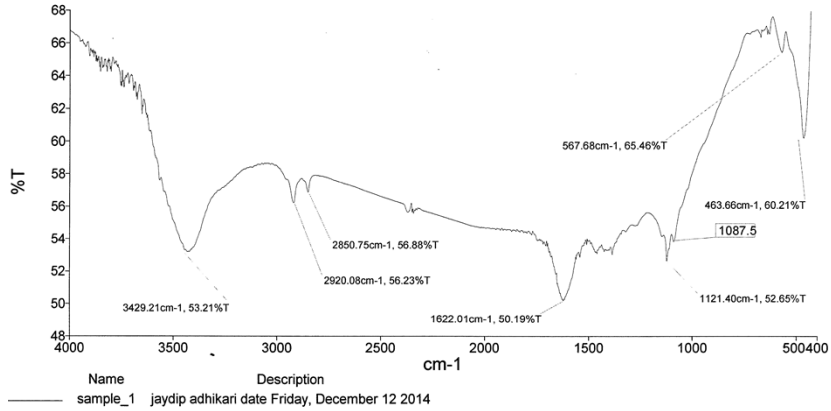

Fig. S5. FTIR spectrum of the Erythromycine conjugated NiO-(Br) nanoparticles.

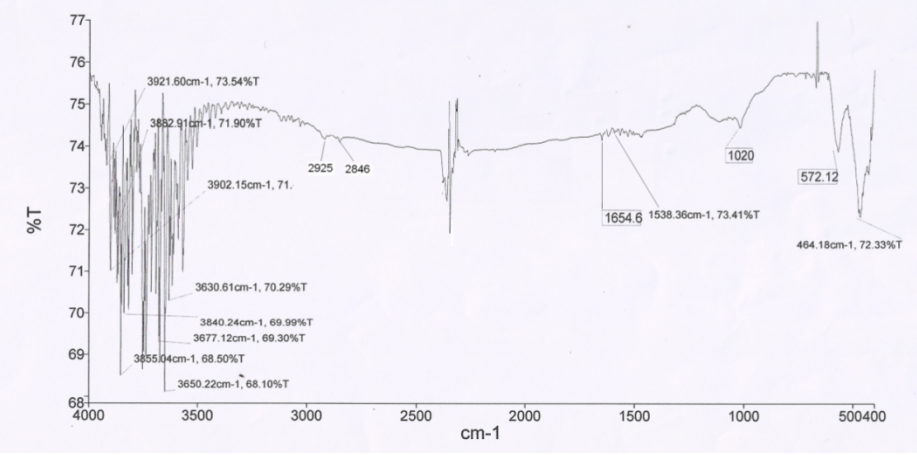

Fig. S6. FTIR spectrum of the Erythromycine conjugated NiO-(Cl) nanoparticles.

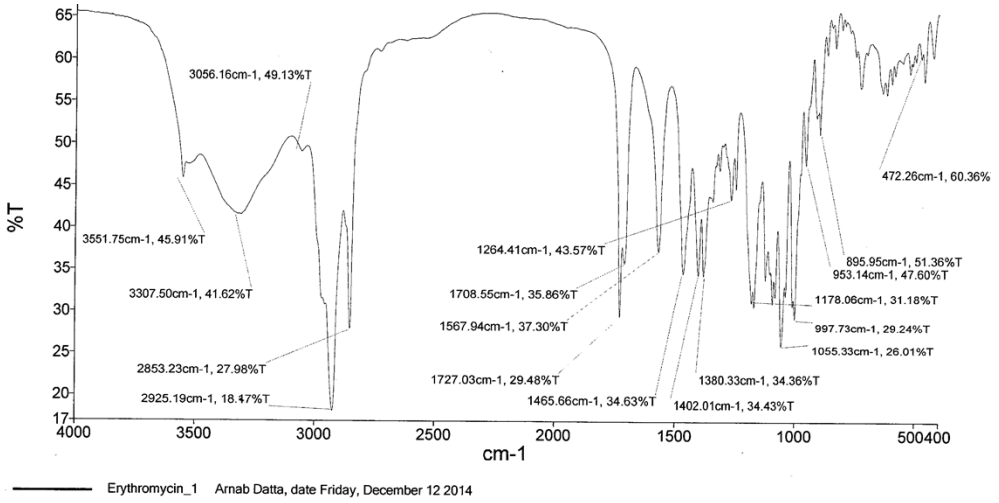

Fig. S7. FTIR spectrum of only Erythromycine.

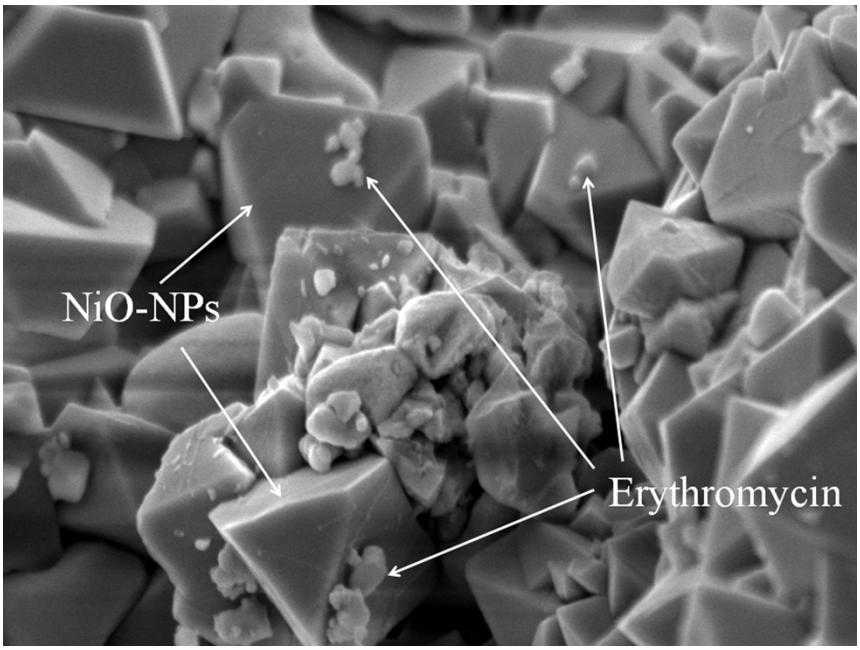

Fig. S8. SEM image of Erythromycin conjugated NiO.

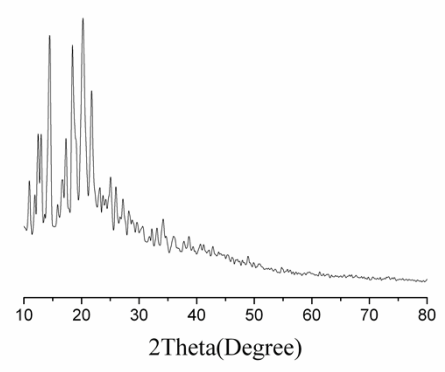

Fig. S9 XRPD pattern of Erythromycine only.

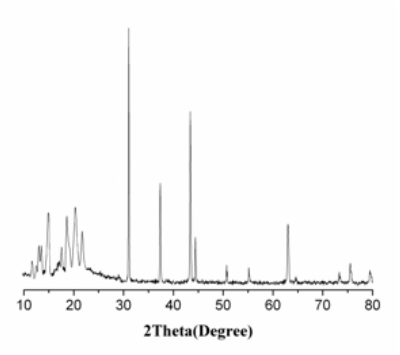

Fig. S10 XRPD pattern of Erythromycine conjugated NiO nanoparticles.

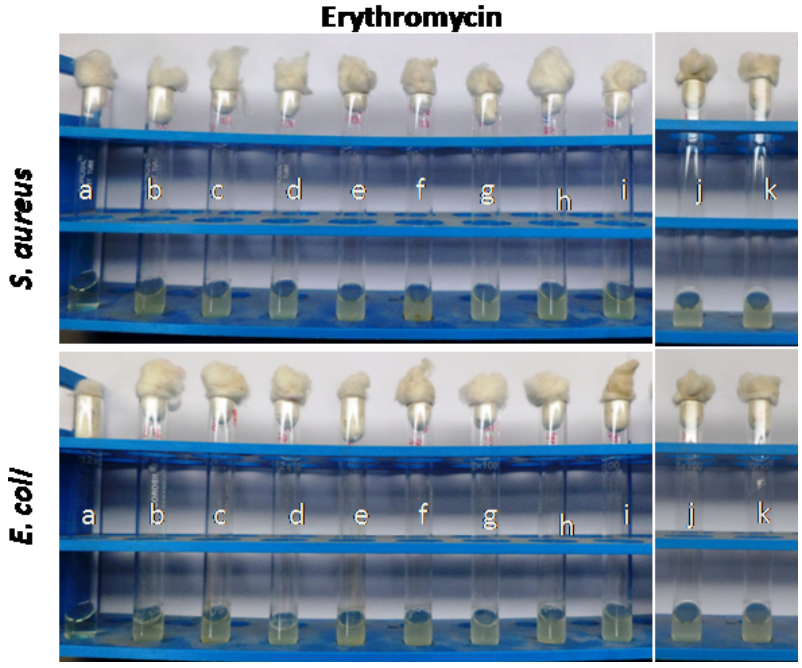

Fig. S11 Minimum inhibitory concentration of Multi drug resistant *E. coli* and *S. aureus* strains against Erythromycin only. Here a = (-)ve control, b = (+)ve control, c = 0.5, µg/ml, d =2 µg/ml, e =4µg/ml, f =8 µg/ml, g =16 µg/ml, h = 32µg/ml, i =64µg/ml, j = 128µg/ml, k= 256µg/ml. Data obtained from three independent experiments that yielded similar results.

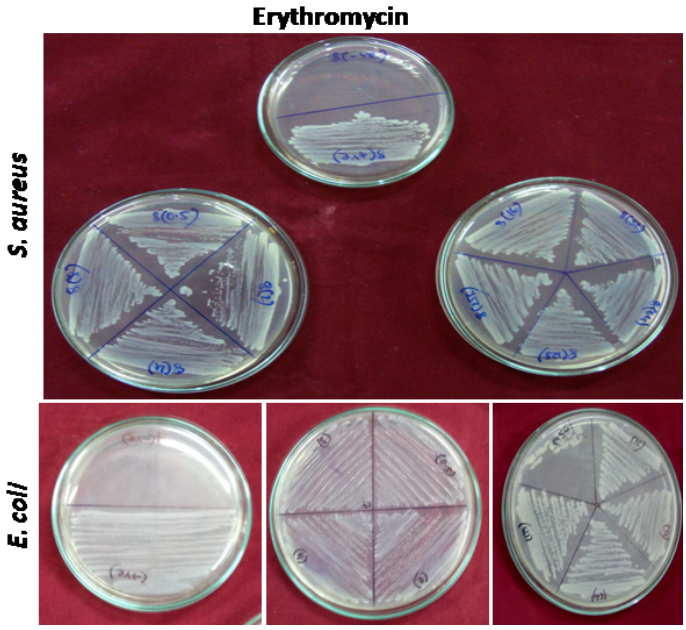

Fig. S12 Minimum bactericidal concentration of Multi drug resistant *E. coli* and *S. aureus* strains against Erythromycin only. Data obtained from three independent experiments that yielded similar results.

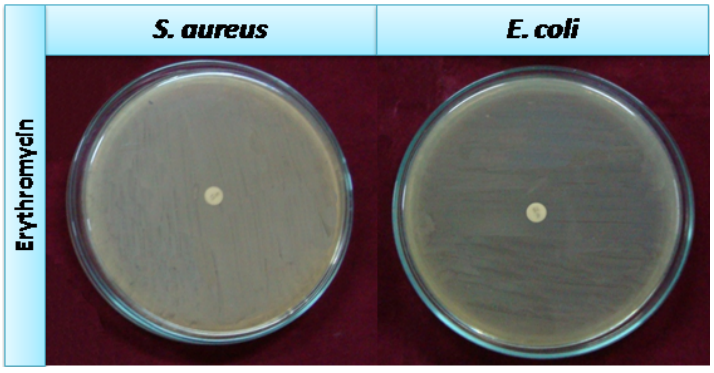

Fig. S13 Diameter of inhibition zone of Multi drug resistant *E. coli* and *S. aureus* strains against Erythromycin only. Data obtained from three independent experiments that yielded similar results.

Table S1 DLS size and Zeta Potential for NiO NPs along with the Erythromycin conjugated NPs.

	DLS Size(nm)	Zeta Potential(mV)
NiO(I)	194.6	-4.81
NiO(I)Ery	242.3	-8.21
NiO(Br)	230.9	-12.3
NiO(Br)Ery	262.6	-17.8
NiO(Cl)	262.1	-2.63
NiO(Cl)Ery	279.8	-31.9
S.aureus	-	-30.9
E.coli	-	-26.4