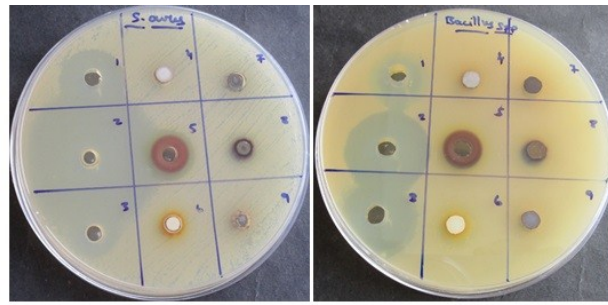


Supplementary materials

In vitro antimicrobial and *in vivo* wound healing effect of actinobacterially synthesised silver, gold and their alloy nanoparticles

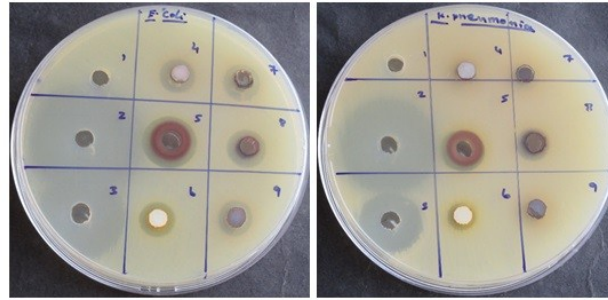
S-Table 1. Minimum inhibitory concentrations (MIC) and Minimum bactericidal concentrations (MBC) of synthesised nanoparticles

S. No	Test Pathogens	MIC values ($\mu\text{g/mL}$)			MBC values $\mu\text{g/mL}$		
		AgNPs	AuNPs	Ag/AuNPs	AgNPs	AuNPs	Ag/AuNPs
1	<i>Staphylococcus aureus</i> (NCIM 2079)	50	25	50	50	25	50
2	<i>Escherichia coli</i> (NCIM 2256)	6.25	25	6.25	12.5	25	12.5
3	<i>Pseudomonas aeruginosa</i> (NCIM 5031)	6.25	6.25	6.25	12.5	12.5	12.5
4	<i>Klebsiella pneumoniae</i> (NCIM 2706)	25	12.5	25	50	25	25
5	<i>Serratia marcescens</i> (NCIM 5246)	12.5	12.5	50	25	50	50
6	<i>Candida albicans</i>	6.25	12.5	6.25	-	-	-
7	<i>Candida glabrata</i>	12.5	25	25	-	-	-



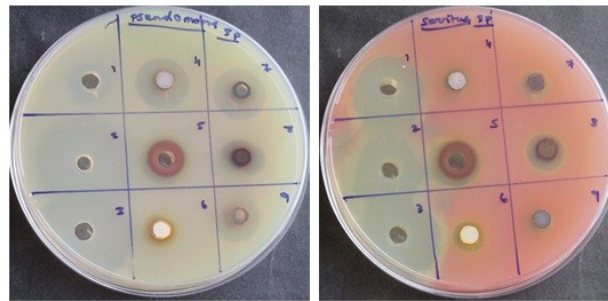
Staph. aureus

Bacillus subtilis



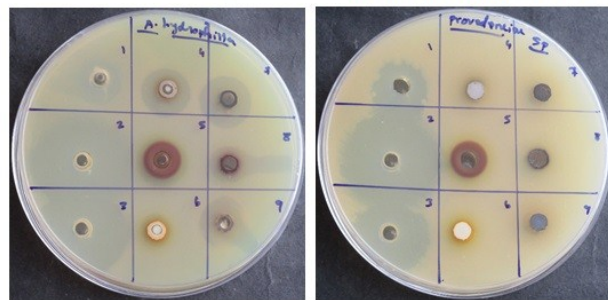
Escherichia coli

Klebsiella pneumoniae



Pseudomonas aeruginosa

Serratia marcescens



Aeromonas hydrophila

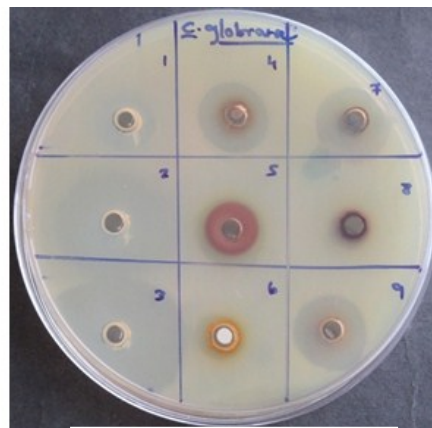
Providencia vermicola

1 : AgNO₃; 2 : HAuCl₄; 3 : AgNO₃ + HAuCl₄; 4 : STD AgNPs; 5 : STD AuNPs; 6 : STD Ag/AuNPs; 7 : AgNPs; 8 : AuNPs; 9 : Ag/Au-NPs

S-Figure 1. Antibacterial activity of synthesised and standard nanoparticles



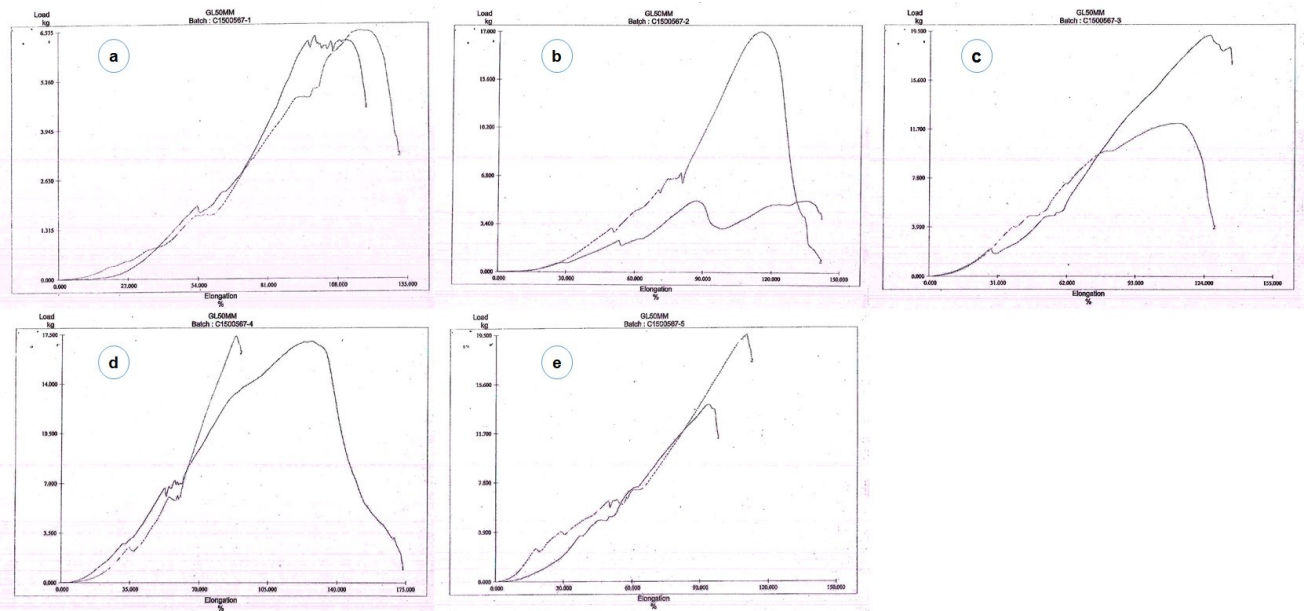
Candida albicans



Candida glabrata

1 : AgNO₃; 2 : HAuCl₄; 3 : AgNO₃ + HAuCl₄; 4 : STD AgNPs; 5 : STD AuNPs; 6 : STD Ag/AuNPs; 7 : AgNPs; 8 : AuNPs; 9 : Ag/Au-NPs

S-Figure 2. Antifungal activity of synthesised and standard nanoparticles



S-Figure 3. Mechanical wound strength testing of nanoparticles treated rat skin samples. a : Control animals (Group I); b : Animals treated with standard ointment (Group II); c : Animals treated with AgNPs (Group III); d : Animals treated with AuNPs (Group IV); e : Animals treated with Ag/AuNPs (Group V)