

Recyclable Magnetic Nanoparticles Grafted with Antimicrobial Metallopolymer-Antibiotic Bioconjugates

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Supplementary Information

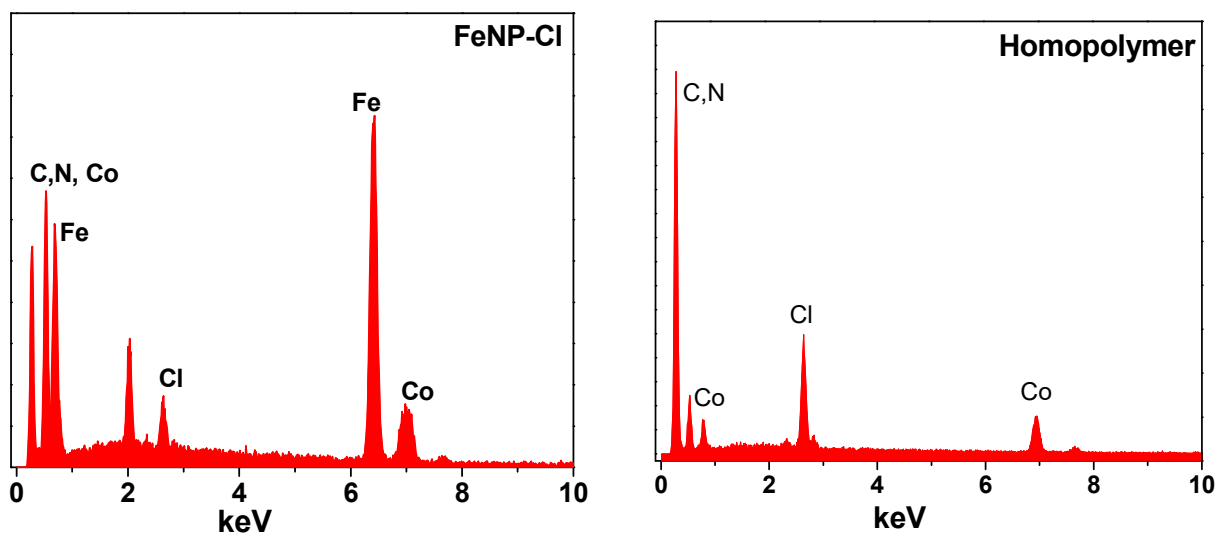


Figure S1. EDX elemental analysis of cobaltocenium-containing iron oxide nanoparticles and cobaltocenium-containing homopolymer.

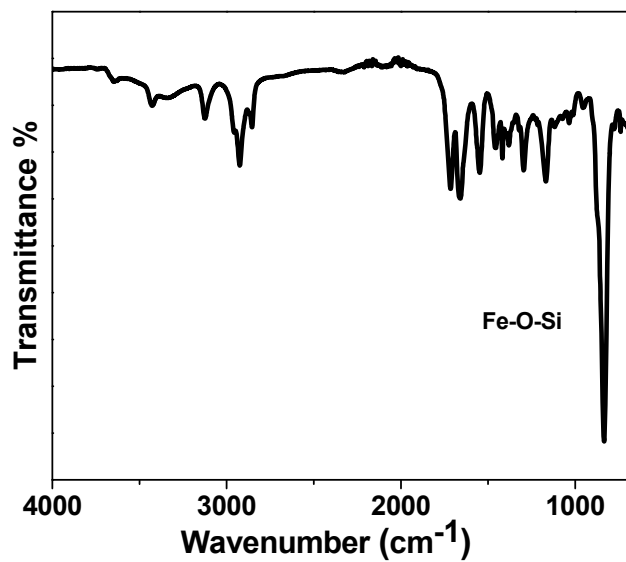


Figure S2. FT-IR spectrum of FeNP nanoparticles.

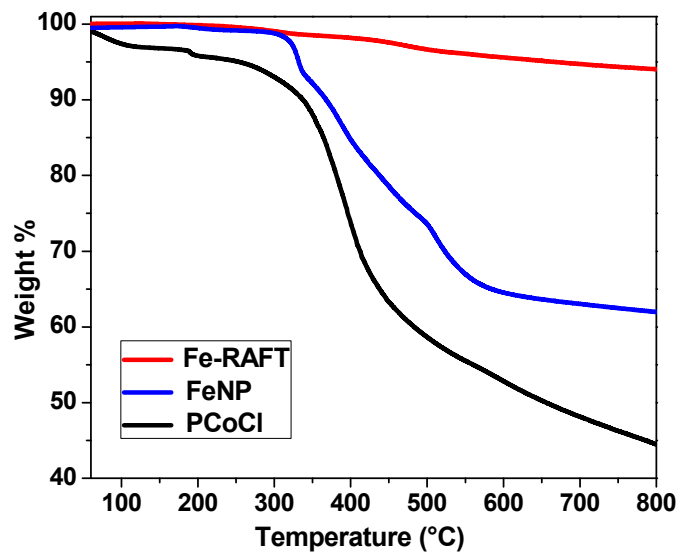


Figure S3. Thermogravimetric analysis curves of cobaltocenium-containing iron nanoparticles.

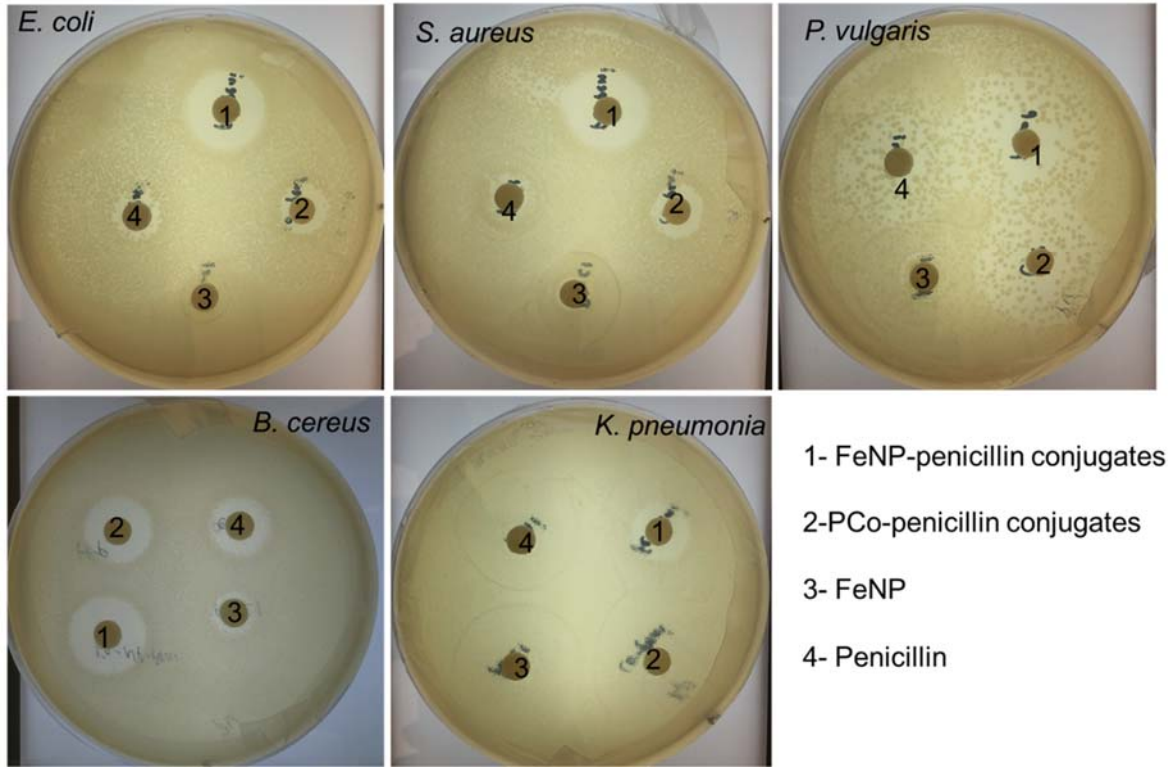


Figure S4. Antimicrobial effect of cobaltocenium-containing iron oxide nanoparticles against different strains of bacteria at 7 µg penicillin using disk-diffusion assays.

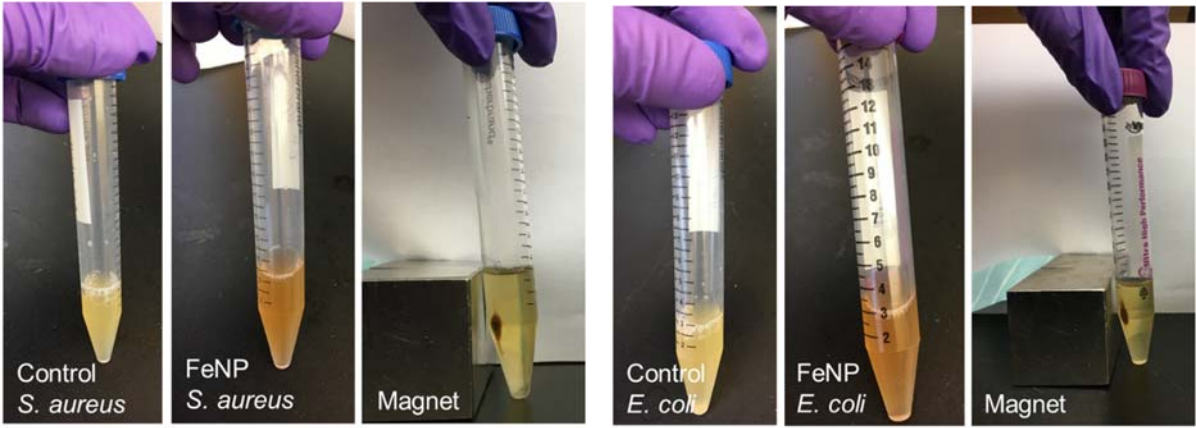


Figure S5. Images of cobaltocenium-containing iron oxide nanoparticles incubating and recycling against various bacteria

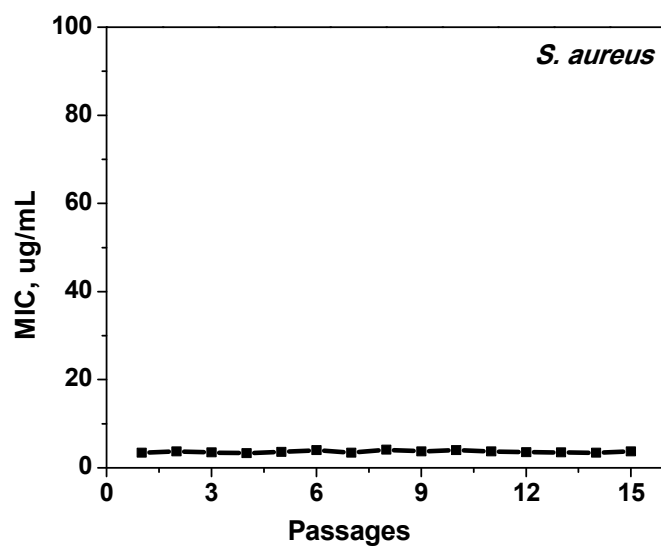


Figure S6. Drug-resistance study of FeNP-penicillin conjugates against *S. aureus*.

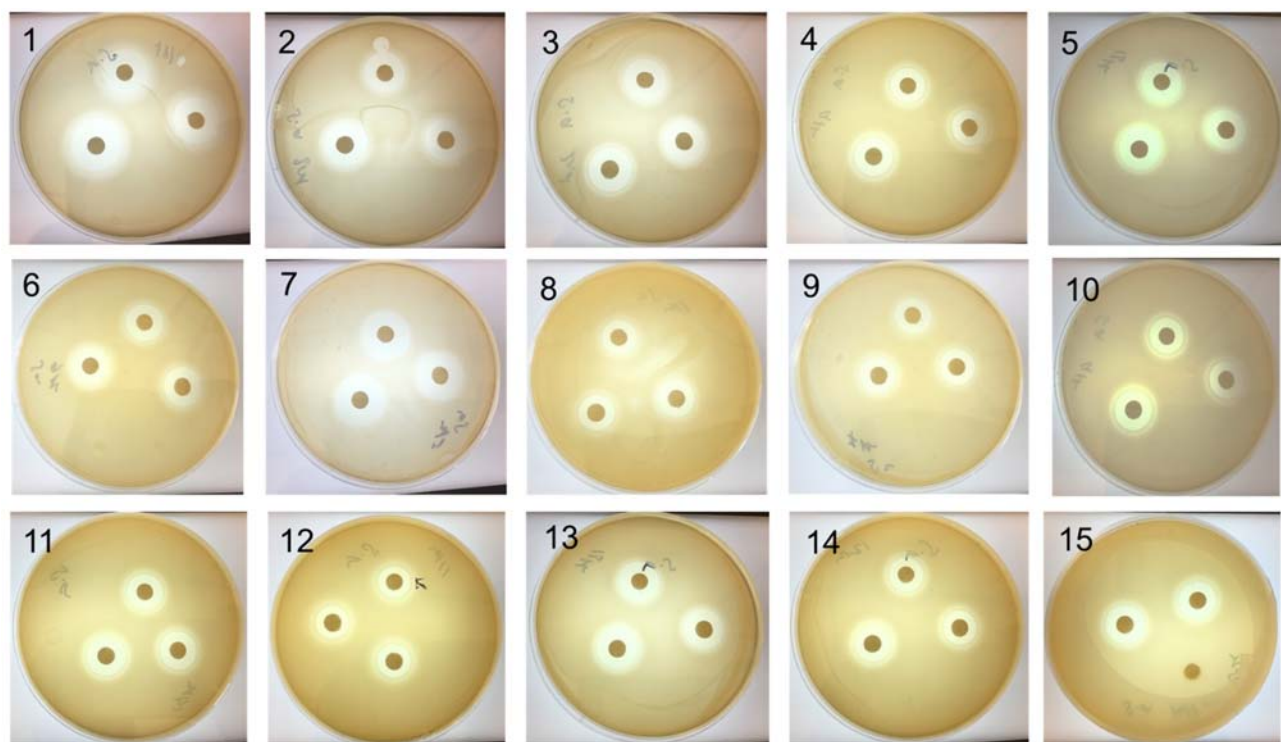


Figure S7. Disk diffusion assay to study drug-resistance study of FeNP-penicillin conjugates against *S. aureus* for 15 passages.

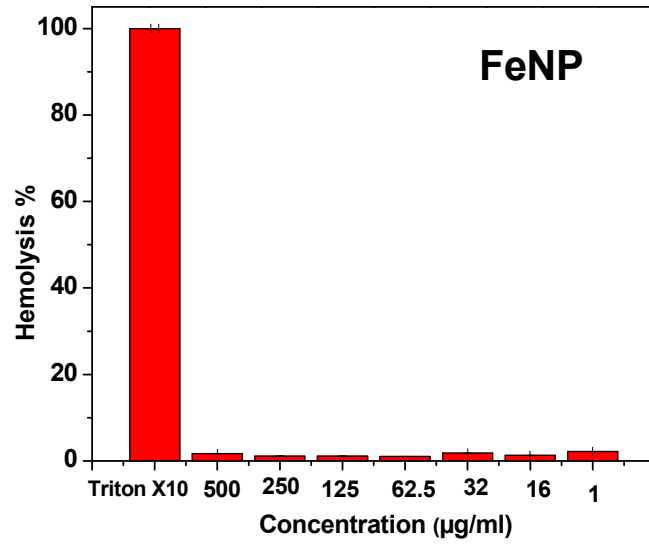


Figure S8. Hemolysis test results for FeNP nanoparticles.