## **Supporting information**

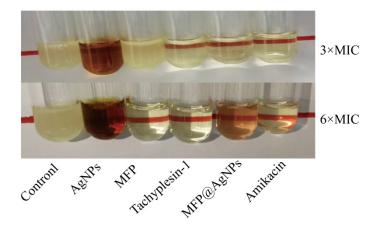


Figure S1. Representative images of antibacterial activity against MDR-AB at different

concentrations ( $3 \times MIC$  and  $6 \times MIC$ ).

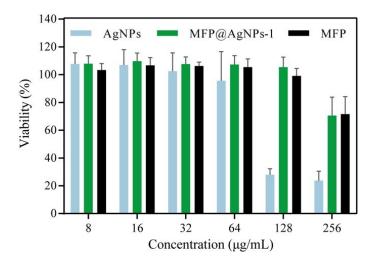


Figure S2. Cytotoxicity against HUVEC.

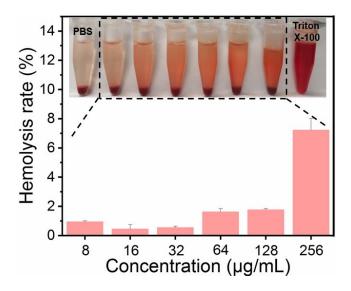


Figure S3. Images of hemolysis assay and the hemolysis rate of MFP@AgNPs-1 at virous concentrations.

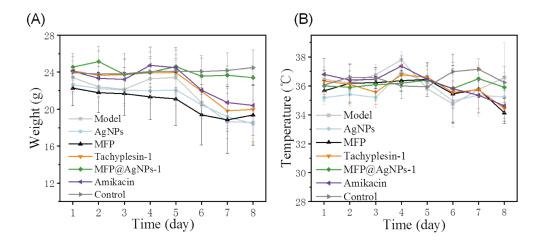


Figure S4. Monitor of (A) weight and (B) temperature overtime.

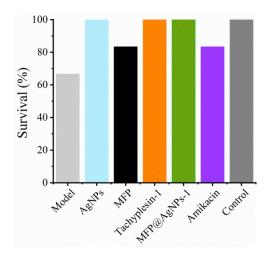


Figure S5. Survival assay of MDR-AB infected mice after treatment.