

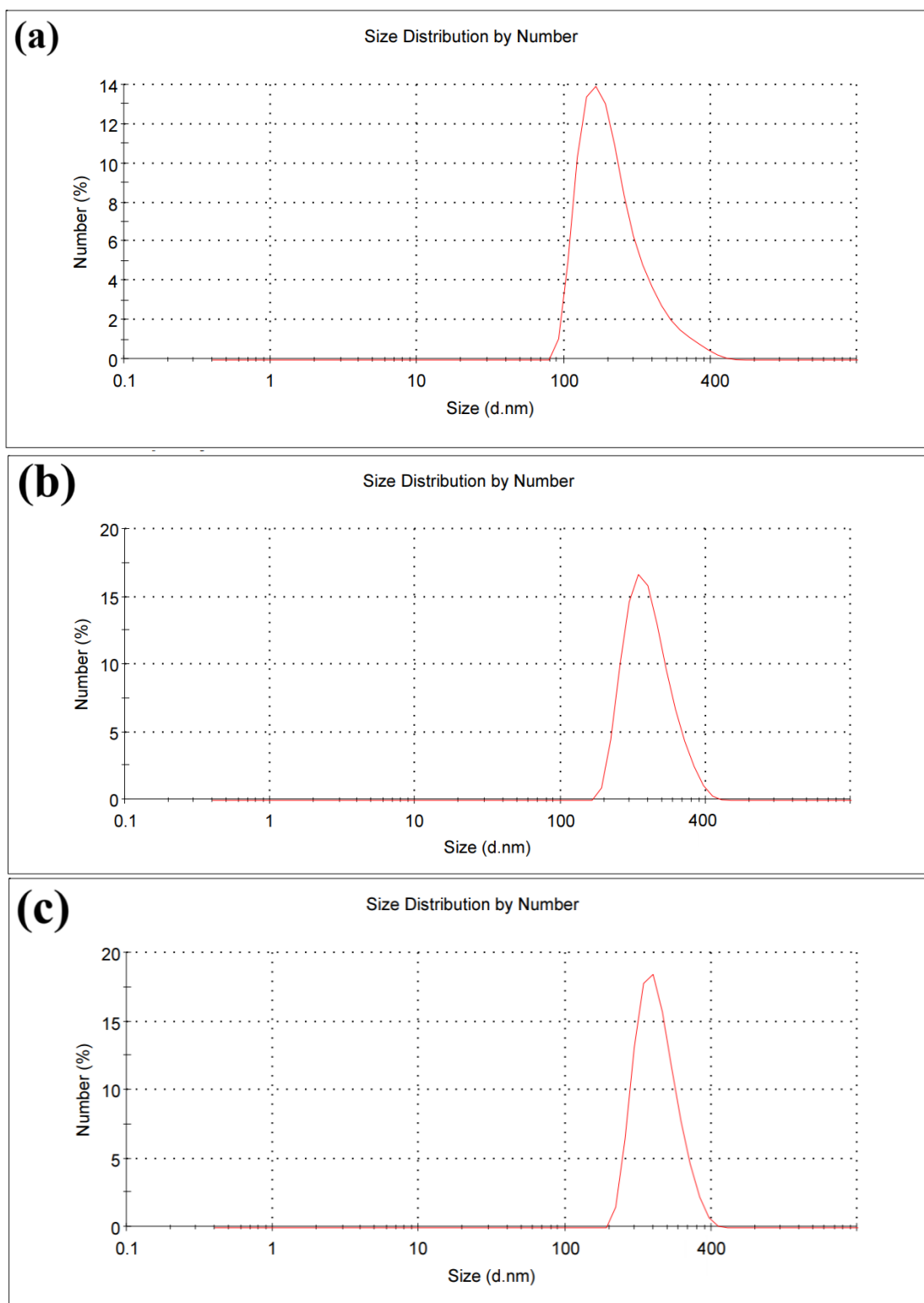


Figure S1: DLS distribution analysis of the synthesized (a) Gent-Ag NPs, (b) Gent-CuO NPs, and (c) bimetallic Gent-Ag-CuO NPs.

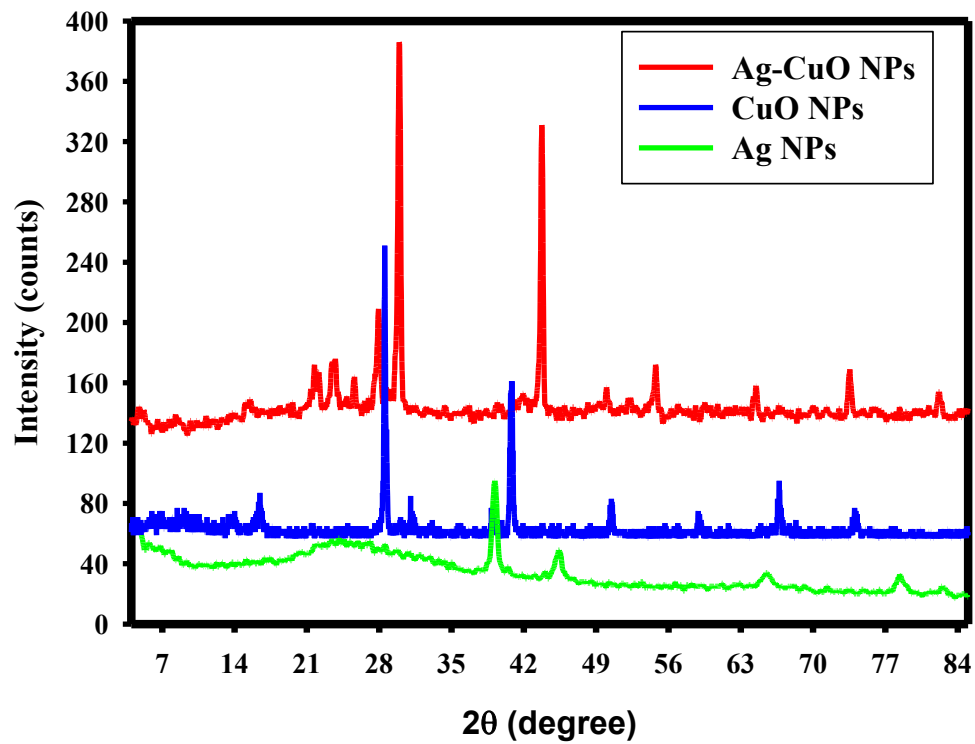
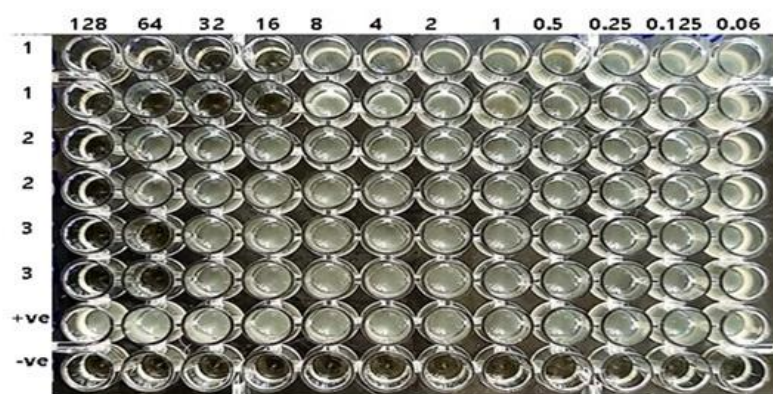
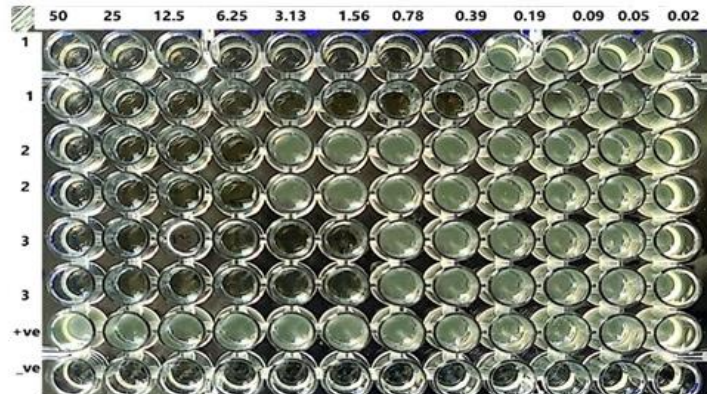


Figure S2: XRD analysis of the synthesized Gent-Ag NPs, Gent-CuO NPs, and bimetallic Gent-Ag-CuO NPs.



(a)

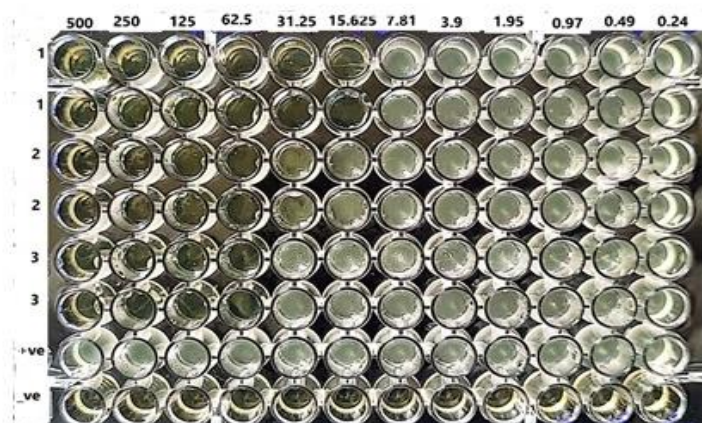


(b)

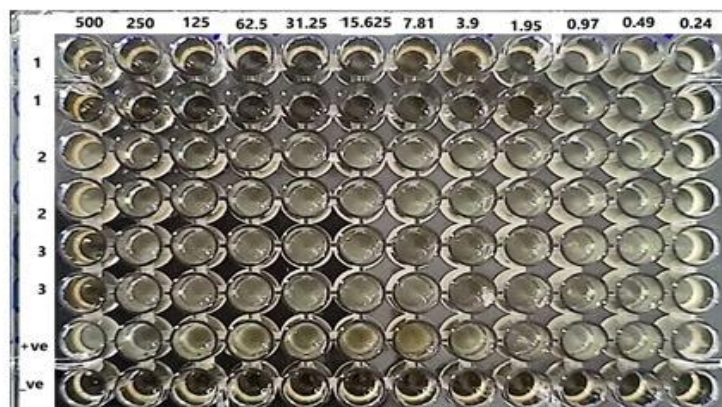


(c)

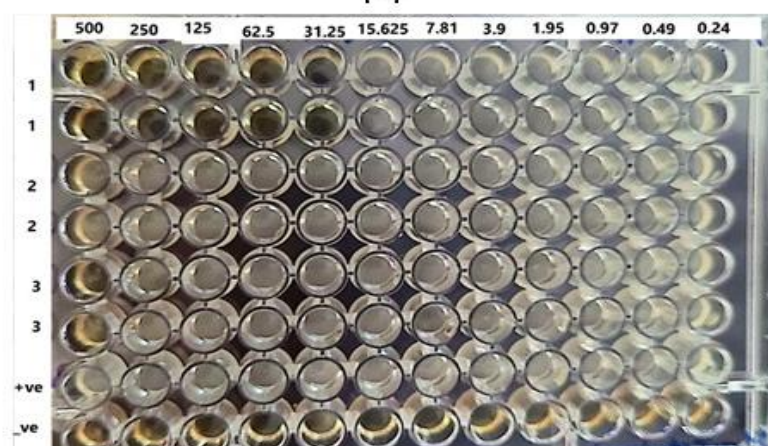
Figure S3: (a) MIC of Gentamicin against three resistant isolates of *K. pneumoniae*, (b) MIC of irradiated-gentamicin (50 ppm) against three resistant isolates of *K. pneumoniae*, (c) MIC of irradiated-gentamicin (5 ppm) against three resistant isolates of *K. pneumoniae*.



(a)



(b)



(c)

Figure S4: (a) MIC of Gentamicin-Ag NPs against three resistant isolates of *K. pneumoniae*, (b) MIC of Gentamicin-CuO NPs against three resistant isolates of *K. pneumoniae*, (c) MIC of Gentamicin-Ag-CuO NPs against three isolates of *K. pneumoniae*.