

Supplementary Figures (SF)

SF 1. UV-Vis spectra was recorded before and after dialysis, Bottles showing nanoparticles before and after dialysis (**A**) and (**B**) (inserted).

SF 2. Comparative study of nanoparticle formation. UV-Spectra showing nanoparticle formation at room temperature (un-dotted) and sunlight mediated nanoparticles formation (Dotted lines).

SF 3. (**A**) Photographs of nanoparticles containing vial: 1. Control, 2. the ice phase of AgNPs-EW, 3. after thawing; (**B**) UV-Vis spectra of AgNPs-EW before and after freezing-thawing (three times); (**C and D**) Zeta potential and DLS analysis.

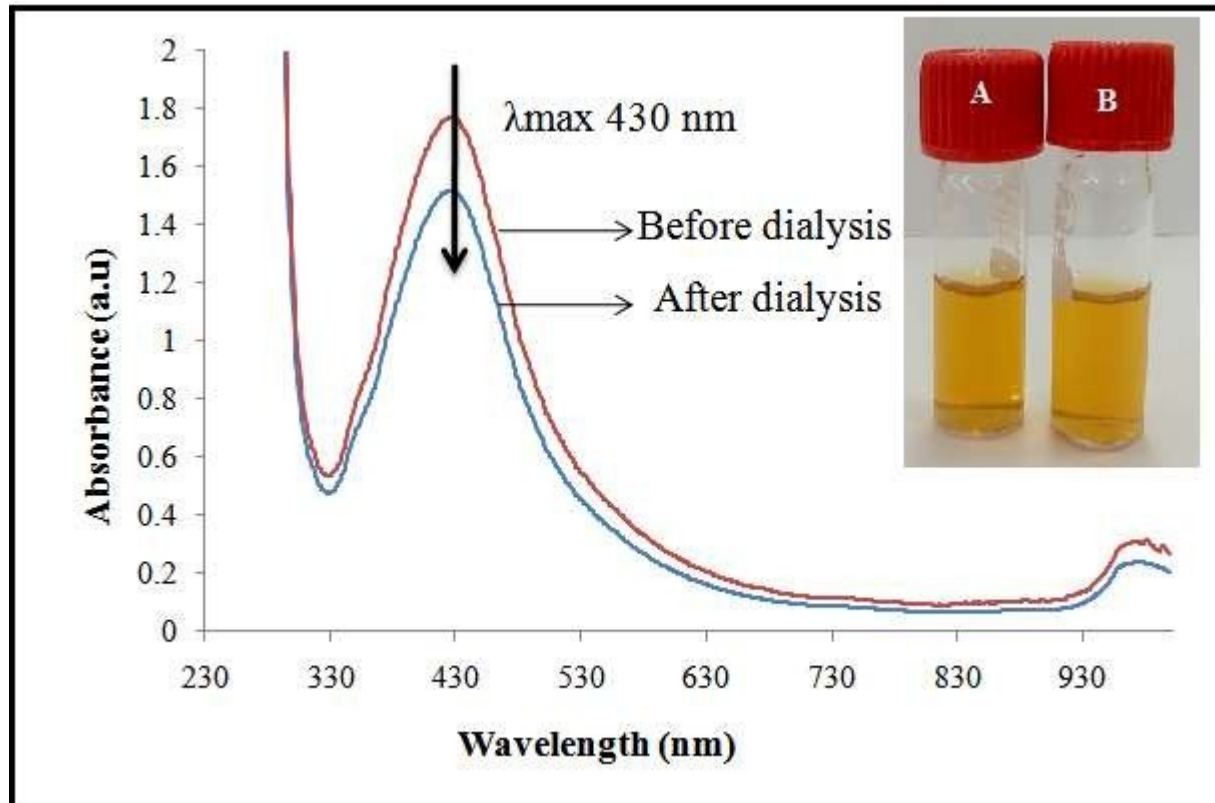
SF 4. A colloidal stability of AgNPs-EW in different biological buffer analyzed by UV-vis spectroscopy, **A-A'**- phosphate buffer, **B-B'**- bicarbonate buffer, **C-C'**- Tris-HCl.

SF 5. Photograph showing dose dependent Zone of inhibition by AgNPs-EW against (**A**) *Salmonella Typhimurium* on BHI and (**B**) *E.coli* on LB plates.

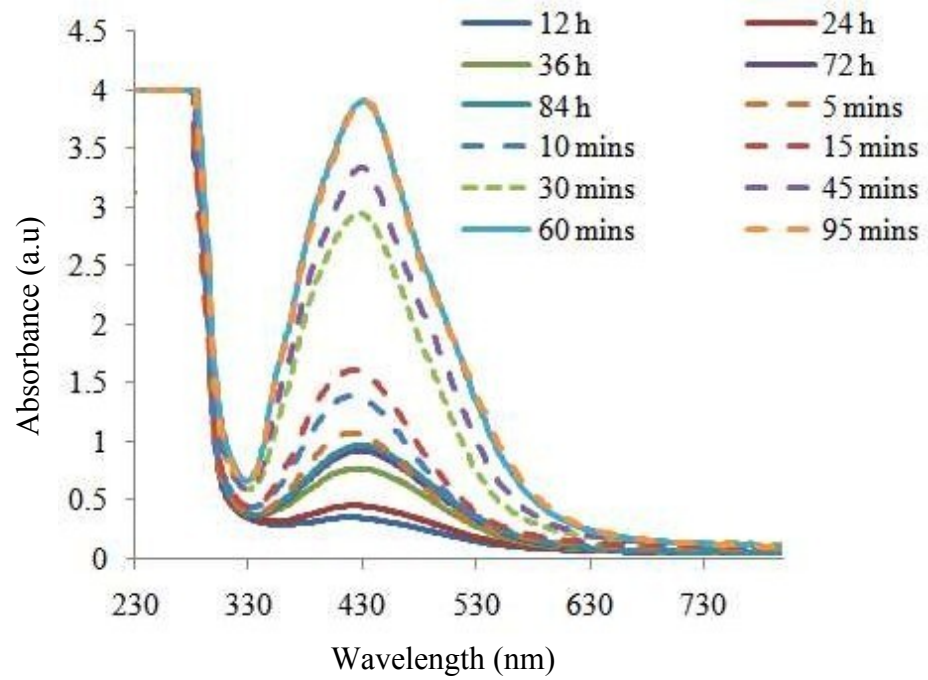
SF 6. The bacterial growth kinetics of (**A**) *Salmonella typhimurium* in BHI and (**B**) *E.coli* in Nutrient broth media on treatment with different concentration of AgNPs-EW (1, 2, 4, 6, 8, 10, 12µg/ml).

SF 7. The histogram representing biofilm inhibition (%) after treatment with AgNPs-EW (4µg/ml). *Values are expressed mean ± SD (n=3)*

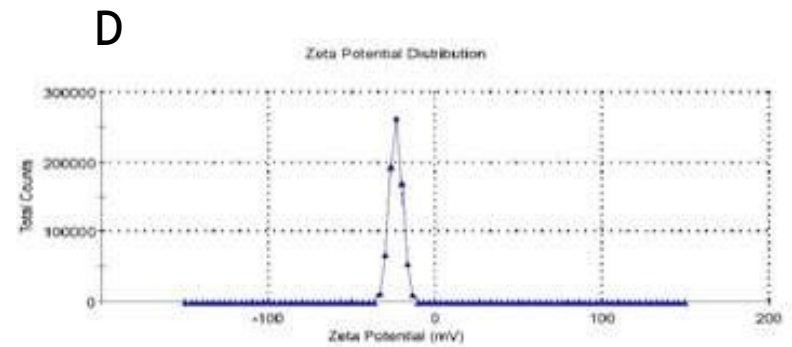
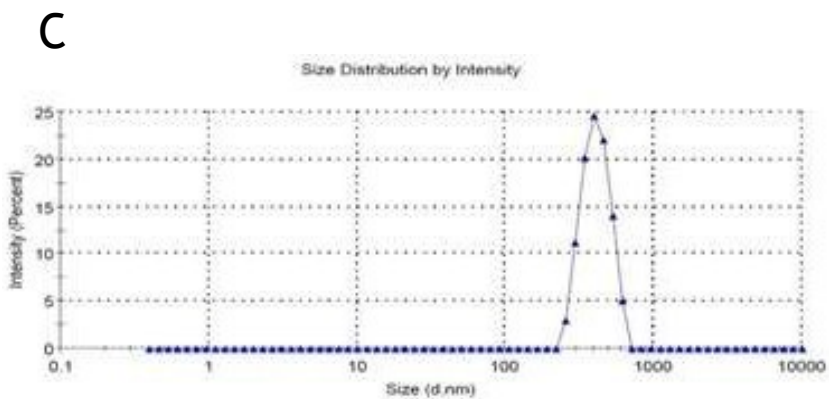
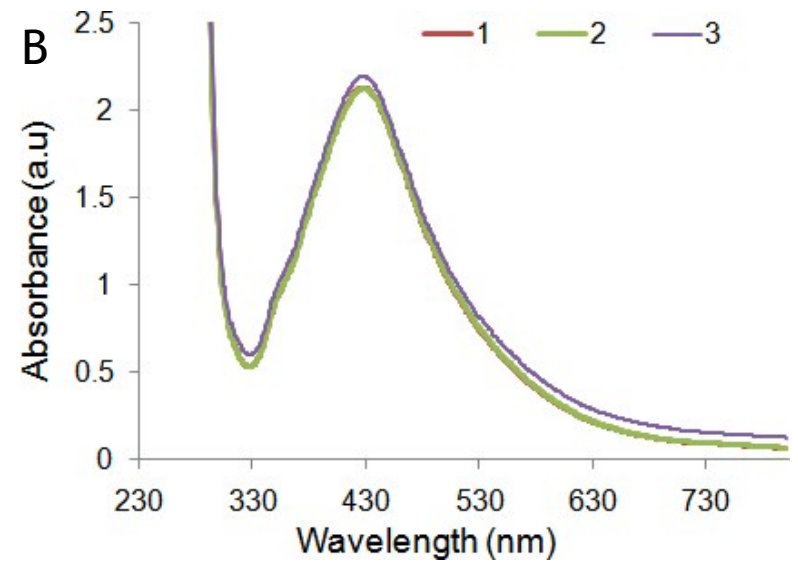
SF 8. The histogram corresponds to the cell membrane damage and DNA damage of *Salmonella typhimurium* and *E.coli* upon treatment with AgNPs-EW (4µg/ml). *Values are expressed mean ± SD (n=3)*



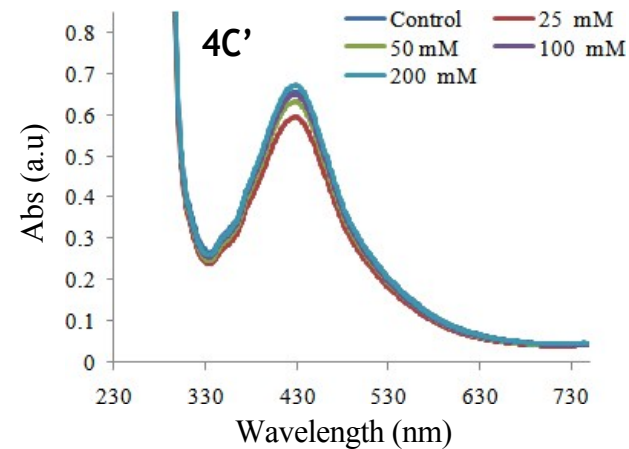
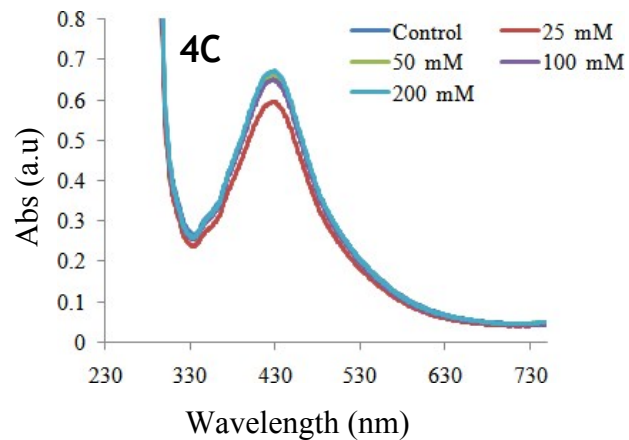
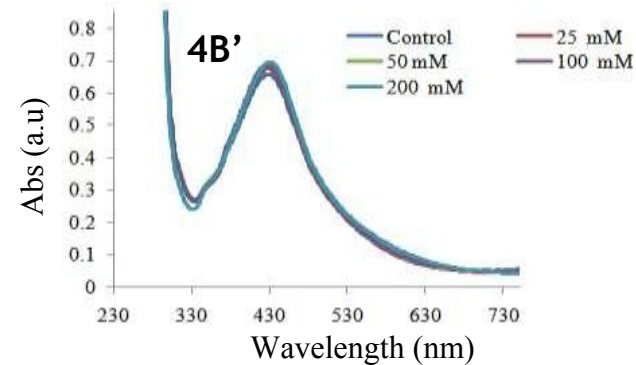
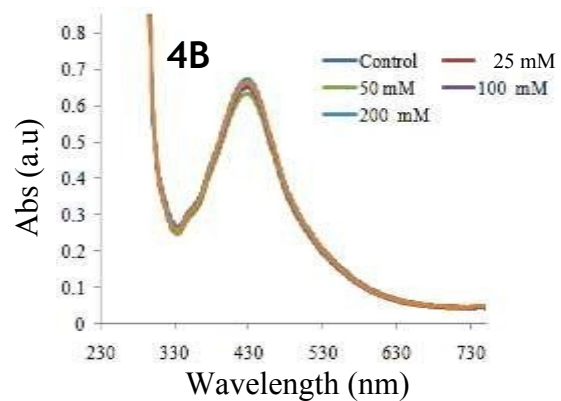
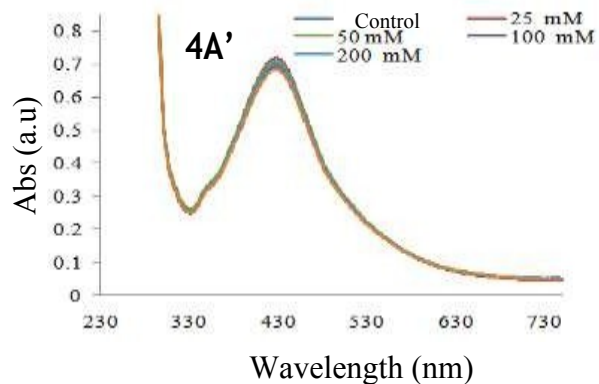
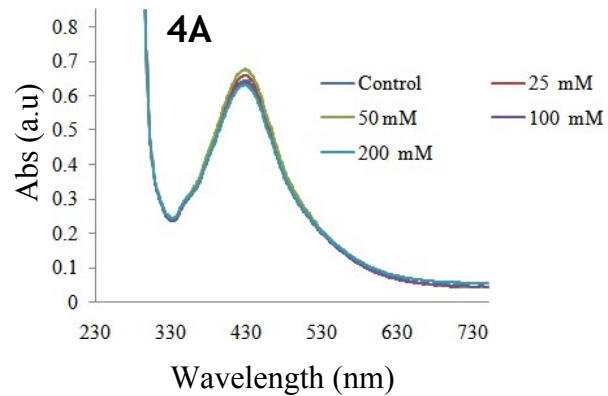
Supplementary Figure: 1

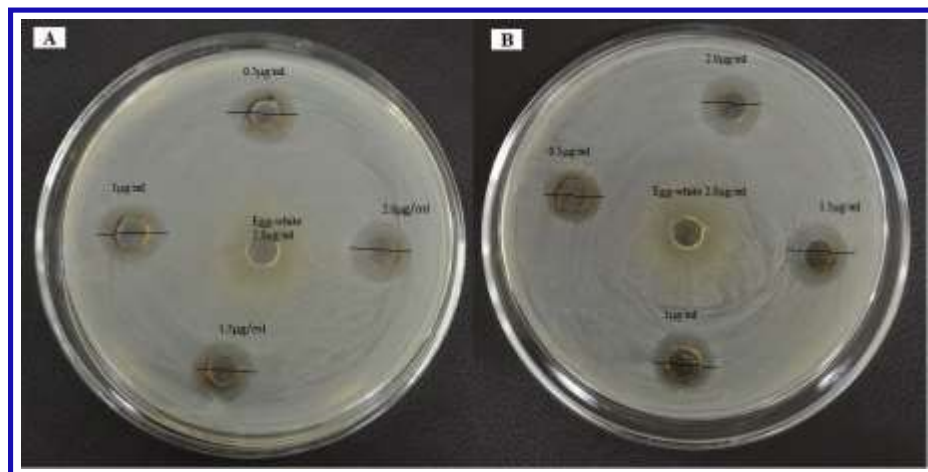


Supplementary Figure:2



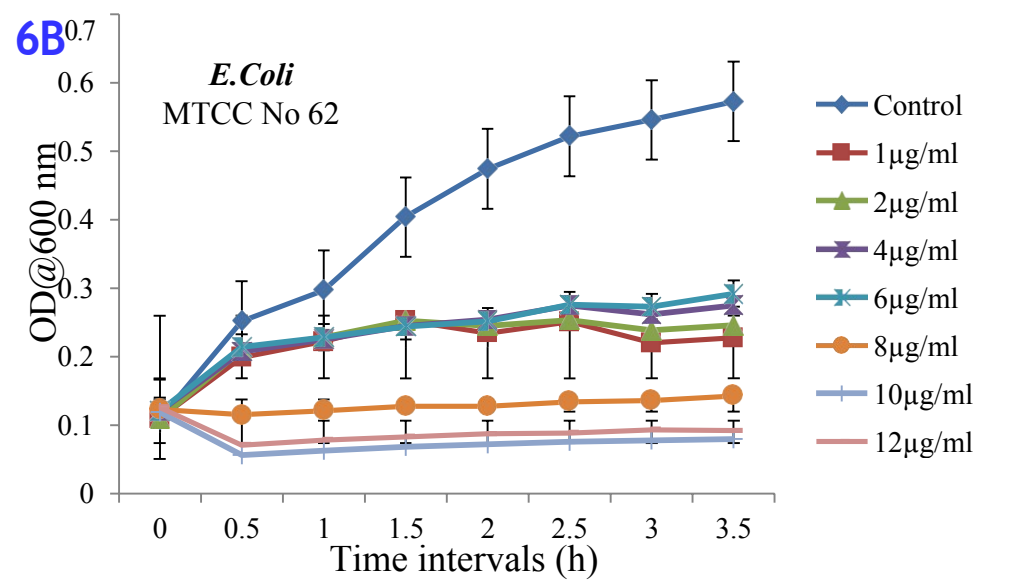
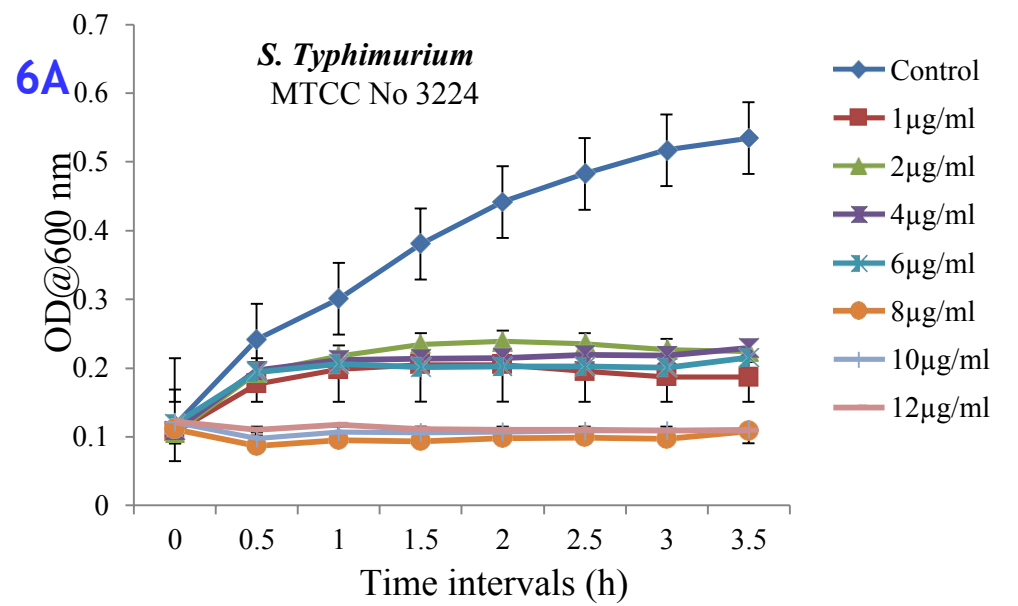
Supplementary Figure: 3

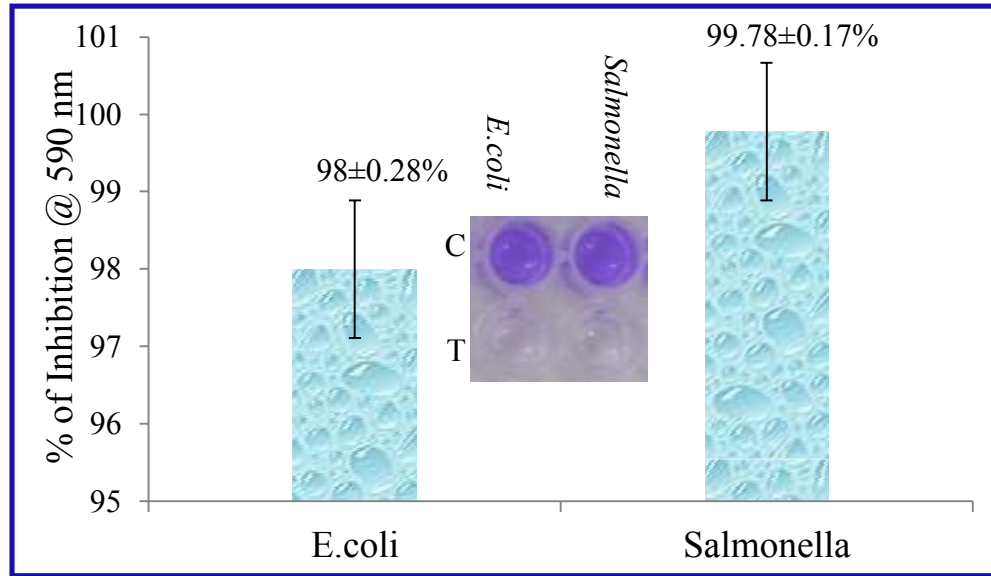




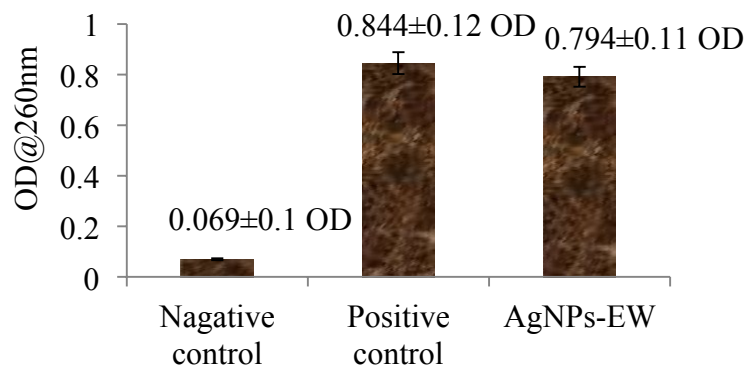
Zone of inhibition (mm) ^a		
AgNPs-EW (µg/ml)	<i>S. typhimurium</i> MTCC No 3224	<i>E. coli</i> MTCC No 062
0.25	8.0±0.2	9.0±0.5
0.5	10.0±0.1	11.0±0.2
1.0	11.0±0.2	12.0±0.1
1.5	12.0±0.5	13±0.25
2.0		

^aValues are mean±SD (n=3)

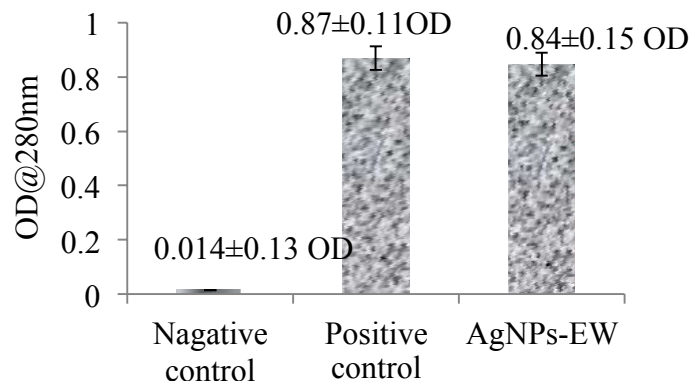




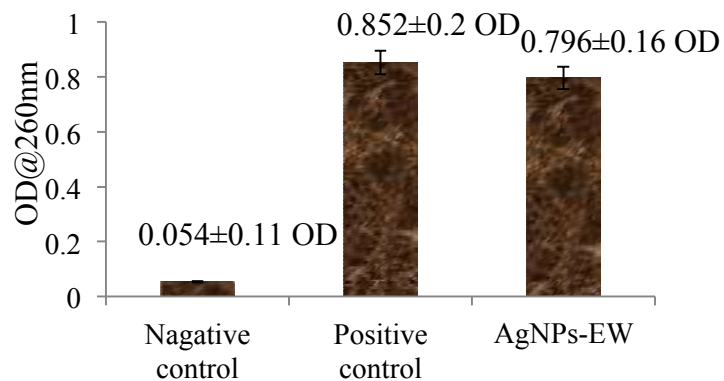
Supplementary Figure: 7



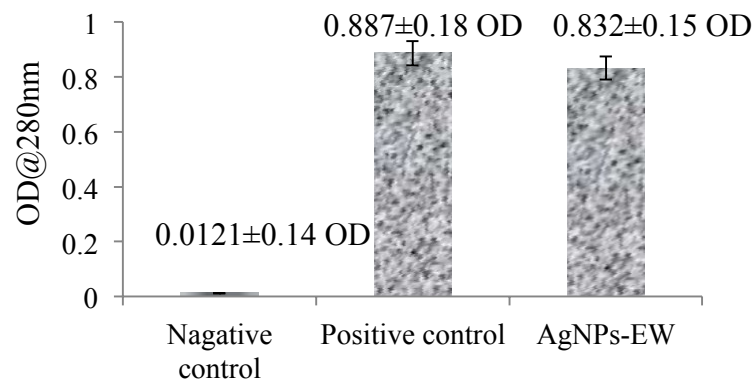
8A. E.coli cell membrane damage



8C. E.coli DNA damage



8B. S. typhimurium membrane damage



8D. S. typhimurium DNA damage