Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2020

## **Supporting Information**

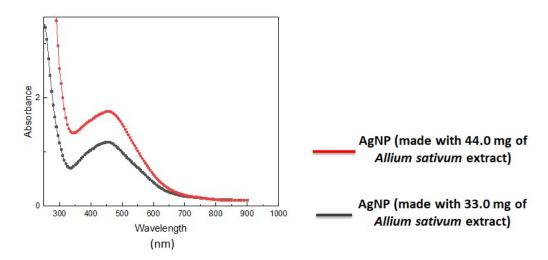


Figure S1. Analysis of the synthesized AgNP by UV/Vis spectrophotometry. The red line shows the absorbance and relative wavelength of AgNP synthesized with 33.0 mg of *Allium sativum* extract. The black line shows the absorbance and relative wavelength of the AgNP synthesized with 44.0 mg of *Allium sativum* extract.

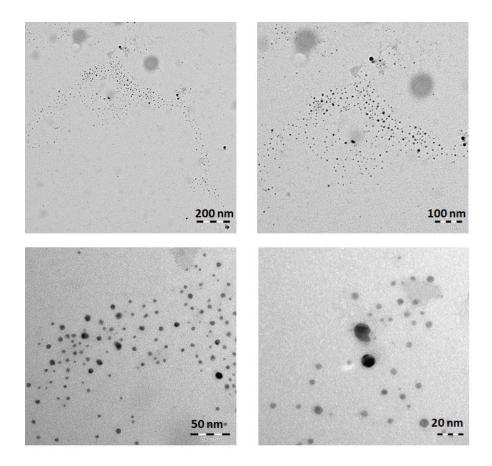


Figure S2. TEM image of the synthezised AgNPs at different magnifications.

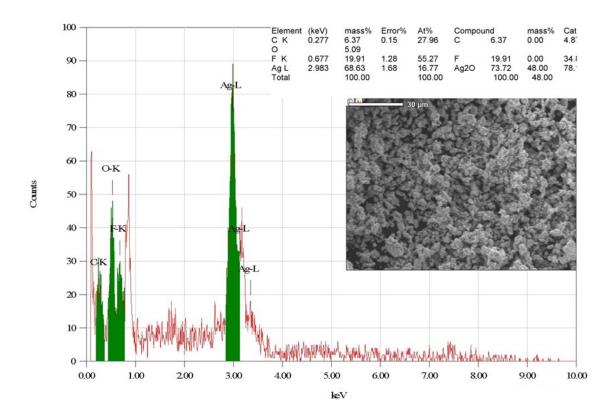


Figure S3. Analysis of the synthezised AgNPs by Energy-dispersive X-ray spectroscopy (EDS). The mass percentage of Ag in the synthesized AgNP is around 70% as shown in the table above.

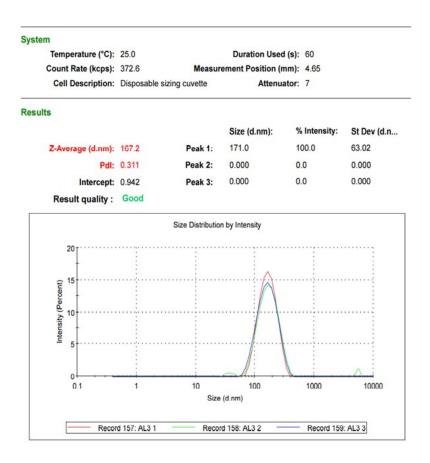


Figure S4. Analysis of the synthezised AgNPs by Dynamic light scattering (DLS). The AgNP size as detected by DLS was 167.2 nm. The experiment was performed in triplicates.

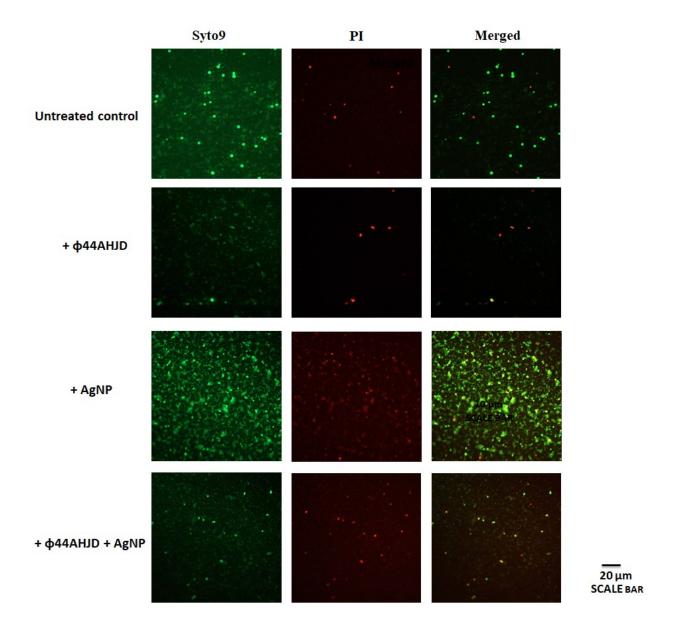


Figure S5. Live/dead staining of the treated *S. aureus* Rumba biofilm. As evident, maximum dead cells were seen where treatment with both the phage and AgNP was done.