|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Treatments | Particle size (nm) | Zeta Potential (mV) | Concentration (mg/ml) | MIC/MBC (µg/ml) | | | |
| Gram-Positive bacteria | | Gram Negative bacteria | |
| S. aureus | B. subtilis | E. coli | P. aeruginosa |
| EGF-C-TPP | 147±10 | 26±0.15 | 1 mg/ml | 8.5/15.5 | 2.53/4.75 | 11.4/24 | 3.28/7.10 |
| C-TPP | 126±10 | 41±0.25 | 1 mg/ml | 6.5/13.6 | 1.25/3.42 | 7.5/27.4 | 1.74/6.5 |

*Table 2. The antibacterial activity of CS-EGF and CS was assessed against four different strains by determining the MIC and MBC values. While Vancomycin was used as a positive control, the control did not exhibit any additional harmful effects on bacterial turbidity at the concentration of 0.5% acetic acid*