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Synthesis and Characterization of Silver Nano Particle and their application for removal of E-Coli from waste water.

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Synthesis and Characterization of Silver Nano Particle and their application for removal of *E-Coli* from waste water.

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Abstract

Silver nanoparticles are used as an excellent antimicrobial agent. It is used extensively in many consumer products, because of its effective antimicrobial properties and low production cost. For the water purification, nanotechnology offers the possibility of an effective removal of all pollutants and germs. The objective of this study was to assess how silver nanoparticles would affect waste water treatment system for E.coli removal. For this purpose nano silver solution will be created by adding 125mg of Nano silver powder to 250ml of deionized water by means of magnetic stirring and mechanical agitation. In order to obtain a homogeneous sample of n-Ag, the quantities will be taken as the solution on magnetically stirring. Three dilutions of n-Ag concentrations will be prepared and mixed with waste water which collected from different sources. Potential use of silver nanoparticles for water purification and its relative bacterial filtration effectiveness is discussed in this work. It is suggested that silver nanoparticles may be used in future at large scale for water purification.

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