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Synthesis And Characterization Of Gold Nanoparticles And Their Application For Removal Of E.coli From Waste Water

Abstract: Spherical gold (Au) nanoparticles are prepared by hydrothermal method and are characterized by ultra violet visible spectroscopy. It is revealed that the size of chemically synthesized gold nanoparticles is 5-10 nm. X-ray diffraction (XRD) analysis determines the polycrystalline nature of gold nanoparticles, and scanning electron microscopy (SEM) is used for antimicrobial activity and high surface area. Long-term stability nanoparticles are now in high demand for treating waste water. Hence, an attempt is planned to kill the microbes (E. coli) present in the waste water by way of gold nanoparticles.

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