

Green Synthesis of Silver Nano Particles Using Mimosas Elogy Leafs Extract and Its Characterization

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The Green synthesis of silver nanoparticles using Mimosops Elengi leaf extract. For the synthesis of silver nanoparticles (SNPs) using the 10ml of leaf extract of Mimosops Elengi as a dropping agent from 1 mm silver nitrate (AgNO_3) has been investigated. The resulting SNPs are characterized using UV-Vis, TEM. Silver nanoparticles were synthesized within 24 hours of incubation period and synthesized SNPs showed an absorption peak at more or less 200-600 nm in the UV-visible spectrum. The FTIR spectrum analysis has confirmed the presence of functional groups of stabilizer Mimosops Elengi leaves extract in capping the silver nanoparticles the morphological study of Silver nanoparticles using (SEM, TEM) suggests that the nanoparticles are globular in shape with a diameter more then 50-100nm. This simple without any hazardous chemicals as dropping agent and economical to synthesized SNPs.

Biography

C.Sivakumar has experience in Materials Science and Nanoparticles. He is a Research Scholar from P.G and the Research Department of Chemistry. Now is focusing on Green Synthesis Of Silver Nano Particles Using Mimosops Elengi Leafs Extract And Its Characterization.