

**A low cost Bio-Synthesis of Zn/Fe Bimetallic Nano particles to
evaluate the Antibacterial activity**

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Abstract

A bimetallic nanoparticle is a combination of two different metals that exhibit several new and improved properties. Bimetallic nano materials can be in the form of alloys, core-shell, or contact aggregate. Bimetallic nanoparticles are formed by the combination of two different metals. Bimetallic nanoparticles have attracted huge attention as compared to monometallic nanoparticles in both technological and scientific view because Bimetallic nanoparticles shows better properties. In this present work we have synthesized Zn/Fe bimetallic nano particles using plant precursor limonia acidissima. Also the nanoparticles were characterized with UV-Vis, IR and particle analyzer. Further we had planned to study antibacterial properties of zn/fe bimetallic nano particles.

Keywords: Bimetallic, Limonia acidissima, UV-Vis, Antibacterial