



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG ISSN: 0974-4290

Vol.9, No.02 pp 98-105, 2016

Greensynthesis of Copper Nanoparticles by *Arevalanata* Leaves Extract and their Anti Microbial Activites

Seeram. Hariprasad*, G. Susheela Bai, J. Santhoshkumar,
CH. Madhu, D. Sravani

Department of Engineering chemistry, AUCE(A), College of Engineering,
Andhra University, Visakhapatnam, India

Abstract: The copper nanoparticles was prepared by using simple method of green chemical reduction. This is eco-friendly and cost-effective method. It is an effective method for the preparation of copper nanoparticles at room temperature. In this present study we report synthesized copper nanoparticles from *Arevalanata* leaf extract. The formation of copper nanoparticles was confirmed by UV-VISIBLE spectro photometer and characterization was done by UV-VISIBLE, FTIR, SEM and TEM. The Antimicrobial activities of copper nanoparticles was tested aganist *E.coli*, *Staphylococcus aureus*, *Bascillus cereus*, *Pseudomonas aeruginosa*.

Keywords: copper nanoparticle, leaves extract, SEM, TEM, FTIR, UV-VISIBLE.

Seeram. Hariprasad *et al* /Int.J. ChemTech Res. 2016,9(2),pp 98-105
