



Research article

Synthesis and characterization of silver nanoparticle using *Melia azedarach* for vegetable coating and antibacterial activity

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Key words: AgNPs, Green synthesis, *Melia azedarach*, Antimicrobial, vegetables, coating.

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Abstract

The present study was concluded that the vegetable coating affects positively on the physiochemical parameters of tomatoes. The coated sample shows significant difference in almost all parameters as compared to control (uncoated) tomatoes. As far as storage period is concerned as increase the quality parameters like weight loss and antimicrobial activity of tomatoes. *Melia azedarach* mediated silver nanoparticles were Characterize by UV-vis Spectrophotometer, Fourier infrared spectroscopy (FTIR), and Scanning Electron Microscope (SEM) examine the antibacterial activity of biological medicated silver nanoparticles against the microbial strains of *E. coli*, *Streptococcus sp.*, *Klebsiella sp.*, *Bacillus sp.*, *Salmonella sp.*, *Aspergillus niger*.