

Antiviral Activity Of Green Silver Nanoparticles Produced Using Aqueous Buds Extract Of *Syzygium Aromaticum*

Poultry is the second gigantic industry of Pakistan but because of various bacterial and viral diseases its progress was effected, the most noteworthy ailment is Newcastle disease. Clove enhances the immunity of a human body. This study was performed to assess the immune provocative activity of *Syzygium aromaticum* extracts (SAE) against Newcastle Disease (ND). ND is an ailment which is accountable for enormous deprivation in unvaccinated rural chicken inhabitant in Pakistan. In current investigation, the antiviral activity of clove buds silver nanoparticles was inspected in-vitro and in-ovo. Embryonated chicken eggs were used to perform the cytotoxicity assay of the Clove extract silver nanoparticles (CESN). We designed the green-synthesis of silver nanoparticles (AgNP) as a novel and effectual tool against the ND virus. *Syzygium aromaticum* extract was used as reducing and stabilizing agent for synthesis of AgNP. AgNP was characterized using diversity of biophysical methods inclusive of UV-vis spectroscopy, Fourier transform infrared spectroscopy (FTIR), TEM, X-ray diffraction (XRD), and sorted for size categories. AgNP showed in vitro antiviral activity against ND virus in embryonated eggs.

Biography

Prof. Dr. Humayun Riaz, completed his B. Pharm & M. Phil Pharmaceutics from Faculty of Pharmacy, University of The Punjab, Lahore Pakistan, MBA Marketing, PhD Pharmaceutics from University of Sargodha, Sargodha Pakistan. Prof. Dr. Humayun Riaz, the prolific professional, has got more than 26 years of professional and teaching experience in Pharmacy profession. Currently He is working as CEO in oxy Pharma, Marketing Manager NovaMed Pharmaceuticals (Private) Ltd. and Principal/Professor of Pharmaceutics in Rashid Latif College of Pharmacy, 35km ferozpur road Lahore Pakistan. His areas of expertise are Teaching, Pharmaceuticals Marketing, Leadership, Launching of New Products, Administration, Marketing Strategy, Communication, Team Building, Analysis, Multi-Tasking, Negotiation, Time Management, Workload Distribution, Conflict resolution. Prof. Dr. Humayun Riaz has 41 Publications in National and International Journals, he also contributes a chapter in “a compendium of essays on alternative therapy intech” and a chapter in “Alternative and Traditional Medicines and Systems in Pakistan; History, Regulation, Trends, usefulness, Challenges, Prospects and limitations”.

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