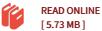




# Ag/ZnO NPs loaded GA/poly(SA) hydrogels for antibacterial applications

By Bajpai, Sunil / Jadaun, Mamta

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | In this book, silver and zinc oxide nanoparticles were synthesized in-situ within the gum acacia/poly (acrylate) hydrogel network using reduction and hydrothermal approaches respectively. The synthesized metal nanoparticles were characterized by Surface plasmon resonance (SPR), X-Ray diffraction (XRD) analysis, Fourier transform infrared (FTIR) spectroscopy Transmission electron microscopy (TEM), Thermogravimetric analysis (TGA) and Scanning electron microscopy (SEM). The water absorption behavior of Ag and ZnO loaded GA/poly(SA) hydrogels was investigated in the phosphate buffer saline (PBS) of pH 7.4 at 37 C.The water uptake data were analyzed with the help of various kinetic models. Finally, the antimicrobial action of nanocomposites was studied using E. coli as model bacteria. | Format: Paperback | Language/Sprache: english | 60 pp.



### Reviews

This publication is amazing. It is definitely basic but shocks in the fifty percent of your publication. You wont feel monotony at anytime of your own time (that's what catalogues are for concerning if you question me).

-- Prof. Kirk Cruickshank DDS

This kind of book is every little thing and taught me to looking ahead of time and a lot more. I am quite late in start reading this one, but better then never. I found out this book from my dad and i encouraged this pdf to find out.

-- Justus Hettinger

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1

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