Antibacterial Activity And Increased Freeze Drying

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Antibacterial activity and increased freeze-drying stability of sialyllactose-reduced silver nanoparticles using sucrose and trehalose. Noh HJ (1), Im AR, Kim HS, Sohng JK, Kim CK, Kim YS, Cho S, Park Y. Author information: (1)College of Pharmacy, Inje University, 607 Obang-dong, Gimhae, Gyeongnam 621-749, Republic of Korea.

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This study focuses on the functionality of fermented taro as an antibacterial ingredient for intermediate moisture (IM) products being developed by the military. The taro is cooked and then inoculated with a food-grade bacterium, Lactococcus lactis ssp. lactis, which produces a bacteriocin, nisin, forming a fermented taro product. The fermented taro

has antibacterial activity against various bacteria and is freeze-dried for eventual incorporation as a food preservative ingredient in an IM product. L. lactis yielded nisin concentrations in a range of 15,000-19,000 AU/g of taro. Challenge studies were conducted in which the fermented taro was incorporated into an IM product, the burrito sandwich. The challenge organisms consisted of three strains of Staphylococcus aureus. The burrito samples with 600 AU/g of fermented taro showed no increase in bacterial counts after 7 days. However, after 14 days the bacterial counts increased to 3 X 107 CFU/g. The burrito samples treated with 1200 AG/u of fermented taro showed no increase in growth from the original inoculum (2 X 105 CFU/g) during the challenge study. The last sampling time was at 56 days with a

slight decrease in the S. aureus counts. It appears that fermented taro can be a good food preservation ingredient in IM products, though further studies will have to be done to optimize product.

The field of oral microbiology has seen fundamental conceptual changes in recent years. Microbial communities are now seen as the fundamental etiological agent in oral diseases through their interface with host inflammatory responses. Study of structured microbial communities has increased our understanding of the roles of each member in the pathogenesis of oral diseases, principles that apply to both periodontitis and dental caries. Against this backdrop, the third edition of Oral Microbiology and Immunology has

been substantially expanded and rewritten by an international team of authors and editors. Featured in the current edition are: links between oral infections and systemic disease revised and updated overview of the role of the immune system in oral infections thorough discussions of biofilm development and control more extensive illustrations and Key Points for student understanding Graduate students, researchers, and clinicians as well as students will find this new edition valuable in study and practice. The field of oral microbiology has seen fundamental conceptual changes in recent years. Microbial communities are now seen as the fundamental etiological agent in oral diseases through their interface with host inflammatory responses. Study of structured microbial communities has increased our

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Nanotoxicity: Prevention, and Antibacterial Applications of Nanomaterials focuses on the fundamental concepts for cytotoxicity and genotoxicity of nanomaterials. It sheds more light on the underlying phenomena and fundamental mechanisms through which nanomaterials interact with organisms and physiological media. The book provides good guidance for toxic prevention methods and management in the manufacture/application/disposal. The book also discusses the potential applications of nanomaterials-based antibiotics. The potential toxic effects of nanomaterials result not only from the type of base materials, but also from their size/ ligands/surface chemical modifications. This book discusses why different classes of nanomaterials display toxic properties, and what can be done to mitigate this toxicity. It

also explores how nanomaterials are being used as antimicrobial agents, being used to purify air and water, and counteract a range of infectious diseases. This is an important reference for materials scientists, environmental scientists and biomedical scientists, who are seeking to gain a greater understanding of how nanomaterials can be used to combat toxic agents, and how the toxicity of nanomaterials themselves can best be mitigated. Explains the underlying phenomena and fundamental mechanisms through which nanomaterials interact with organisms and physiological media Outlines major methods for mitigating and prevention of nanotoxicity Discusses the applications of nanomaterials-based antibiotics

Abstract: Micro-organisms causing diseases have been quickly increasing and spreading vastly in their ability to gain resistance against current antibiotics in the market. This results in an enormous mortality rate. Fortunately, Scientists introduced nanotechnology that can further enhance properties of materials in the nanoscale. This allowed further openings to upgrade natural-based products to become more effective and safer than current synthetic antibiotics. In this study, biodegradable polymer nanocomposite made up of Poly Vinyl alcohol (PVA) with Chitosan (CS) was electro-spun using the electro-spinner embedded with Chicory root herbal extract that can potentially be used for targeting Gastro Intestinal Tract (GIT) diseases. This study is divided into 3 phases. Phase I included refining and optimising the extract

using 2 different solvents (Distilled Water and Ethanol 70%) and 2 drying methods (Sun and Freeze Drying). Phase II optimised the parameters of the electro-spinner to produce smooth PVA/CS Nanofibers (NFs) using the Scanning Electron Microscope (SEM). Phase III optimised the concentration of PVA/CS/Ex. NFs using the Fourier Transform-Infra Red spectroscopy, Ultra Violet-Visible Light spectrophotometer to indicate the Total Phenolic Contents, Entrapment Efficiency (EE), Loading Capacity (LC), release kinetics, antioxidant activity and antibacterial activity. Results of phase I have shown, that the freeze dried ethanolic extract had the highest yield % at 24.7% with total phenolic contents (TPCs) of 4mg Gallic Acid Equivalent (GAE)/1g, 80% antioxidant activity at 25 mg with an IC50 of 4.15 mg/ml as

well as an Minimum Bactericidal Concentration (MBC) of 100 mg with Staphylococcus Aureus and 25 mg with Escherichia Coli. While results of phase III indicated that PVA/CS/Ex 0.5% NFs was the optimum system, which had an IC50 of 33.32 mg/mL, EE 64.89%, LC of 4.41% obeying Korsmeyer Peppas release model for 48 h showing Quasi Fickian behaviour. PVA/CS/Ex 0.5% NFs had an MBC of 2 mg in both strains, Staphylococcus Aureus and Escherichia coli proving to be a potent antibacterial material compared to Vancomycin and Ceftriaxone with a balanced antioxidant activity.

The Handbook of Chitin and Chitosan: Composites and Nanocomposites from Chitin and Chitosan, Manufacturing and Characterisations, Volume Two, is a must-read for

polymer chemists, physicists and engineers interested in the development of ecofriendly micro and nanostructured functional materials based on chitin and their various applications. The book addresses their isolation, preparation and properties, through composites, nanomaterials, manufacturing and characterizations. This is the second of three volumes in a series that contains the latest on the major applications of chitin and chitosan based IPN's, blends, gels, composites and nanocomposites, including environmental remediation, biomedical applications and smart material applications. Provides a comprehensive overview of Chitin and Chitosan materials, from their synthesis and nanomaterials, to their manufacture and applications Volume Two focuses on Chitin and Chitosan composites Includes

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Biomedical Applications Wankei Wan, A. Dawn Bannerman, Lifang Yang, Helium Mak.

"P. aeruginosa is one of the major opportunistic pathogen colonizing the respiratory tract of cystic fibrosis (CF) patients and causing chronic airways infection. Once P.aeruginosa established chronically in the CF lung, bacterial density increases and the microorganism switches to a mucoid form and to a stable biofilm mode of growth in which susceptibility to antimicrobials decreases. The high resistance of P.aeruginosa to multiple antimicrobials led to scenarios in which almost no treatment options are available. In this regard, the research on the introduction of less toxic antimicrobials as well as the use of pharmaceutical forms

enabling dose reductions, longer administration intervals, and reduced systemic toxicity has been stimulated. Therefore, the aim of this thesis was to develop nanoencapsulated colistin and tobramycin in lipid nanoparticles (SLN: Solid Lipid Nanoparticles and NLC: Nanostrucutured Lipid Carriers) and explore their antimicrobial activity versus free drug against P.aeruginosa clinical isolates from CF patients and to investigate the efficacy of these novel formulations in the eradication of biofilms, one of the most relevant mechanisms involved in persistence and in chronic infections. ELABORATION AND CHARACTERIZATION The main objective of the first part of this thesis was to elaborate and characterize lipid nanoparticles (SLN and NLC) as colistin and tobramycin carriers to treat P.aeruginosa lung infection.

The nanoparticles obtained displayed a 200–400 nm size, high drug encapsulation (79–94%) and a sustained drug release profile. The integrity of the nanoparticles was not affected by nebulization through a mesh vibrating nebulizer. Next, tobramycin-NLCs were able to overcome an artificial mucus barrier in the presence of mucolytic agents. Moreover, lipid nanoparticles loaded with both antimicrobials appeared to be less toxic than free drug in cell culture. Finally, an in vivo distribution experiment showed that nanoparticles spread homogenously through the lung and there was no migration of lipid nanoparticles to other organs, such as liver, spleen or kidneys. STABILITY The second essential point of this work concerns the stability of both types of lipid nanoparticles after freeze-drying. The results showed that colistin-SLNs lost their

antimicrobial activity at the third month; on the contrary, the antibacterial activity of colistin-NLCs was maintained throughout the study within an adequate range. In addition, colistin-NLCs exhibited suitable physic-chemical properties at 5 °C and 25 °C/60% relative humidity over one year. Altogether, colistin-NLCs proved to have better stability than colistin- SLNs. The last part focuses on the study of the antimicrobial activity of SLN and NLC loaded with colistin and tobramycin against P.aeruginosa isolates from Sant Joan de Déu and Vall d'Hebrón hospitals CF patients. Regarding the data documenting planktonic experiments, colistin nanoparticles had the same antimicrobial activity as free drug. The activity of tobramycin-loaded SLN was less than that of either tobramycin-loaded NLC or free tobramycin. However,

in the relation to biofilms, nanoencapsulated antimicrobials were much more efficient than their free form. Moreover, the results showed the more rapid killing of P. aeruginosa bacterial biofilms by NLC-colistin than by free colistin. Nevertheless, the two formulations did not differ in terms of the final percentages of living and dead cells, which were higher in the inner than in the outer layers of the treated biofilms. Since it seems clear than biofilms play a key role in respiratory infections in CF patients by P. aeruginosa, these formulations seem to us encouraging alternative to the currently available CF therapies." -- TDX.

The first book dedicated to the potential applications and unique properties of bacterial cellulose (BC), this seminal

work covers the basic science, technology, and economic impact of this bulk chemical as well as the companies and patents that are driving the field. It reviews the biosynthesis and properties of BC, including genetics and characterization; discusses the advancing technology as it relates to product development, bioreactors, and production; and analyzes the economic impact of BC on a diverse range of industry applications, including materials and biomaterials, biological and polymer sciences, and electromechanical engineering.

Biopolymers have the potential to cut carbon emissions and reduce carbon dioxide in the atmosphere. The carbon dioxide released when they degrade can be reabsorbed by plants, which makes them close to carbon neutral. Biopolymers are

biodegradable and some are compostable, too. This book presents key topics on biopolymers, including their synthesis, characterization, and physiochemical properties, and discusses their applications in key areas such as biomedicine, agriculture, and environmental engineering. It will serve as an in-depth reference for the biopolymer industry—material suppliers and processors, producers, and fabricators—and engineers and scientists who are designing biopolymers or evaluating options for switching from traditional plastics to biopolymers.

Bionanocomposites in Tissue Engineering and Regenerative Medicine explores novel uses of these in tissue engineering and regenerative medicine. This book offers an interdisplinary

approach, combining chemical, biomedical engineering, materials science and pharmacological aspects of the characterization, synthesis and application of bionanocomposites. Chapters cover a broad selection of bionanocomposites including chitosan, alginate and more, which are utilized in tissue engineering, wound healing, bone repair, drug formulation, cancer therapy, drug delivery, cartilage regeneration and dental implants. Additional sections of Bionanocomposites in Tissue Engineering and Regenerative Medicine discuss, in detail, the safety aspects and circular economy of bionanocomposites – offering an insight into the commercial and industrial aspects of these important materials. Bionanocomposites in Tissue Engineering and Regenerative Medicine will prove a highly

useful text for for those in the fields of biomedical engineering, chemistry, pharmaceutics and materials science, both in academia and industrial R&D groups. Each bionanocomposite type is covered individually, providing specific and detailed information for each material Covers a range of tissue engineering and regenerative medicine applications, from dental and bone engineering to cancer therapy Offers an integrated approach, with contributions from authors across a variety of related disciplines, including biomedical engineering, chemistry and materials science