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doi: 10.1166/jnn.2012.6169. Authors Hwa Jung Noh 1 ...

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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

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The dissolution profile and the antibacterial activity increased with freeze-dried binary system was adopted to prepare spray-dried system The resultant clear solution was subjected to spray drying (BUCHI Mini Spray Dryer B-290) using the following work conditions: Temperature

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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

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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 contributions from leading researchers across the globe and from industry, academia, government and private research institutions Highlights current status and future opportunities

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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 3×10^7 CFU/g. The burrito samples treated with 1200 AG/u of fermented taro showed no increase in growth from the original inoculum (2×10^5 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 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

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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.

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