

Antibacterial Activity And Increased Freeze Drying

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Antibacterial Activity And Increased Freeze

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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Antibacterial activity and increased freeze-drying ...

Enhanced antibacterial activities of silver nanoparticles (approximately 8-fold) were observed against *Pseudomonas aeruginosa*, *Escherichia coli* and *Salmonella typhimurium* (minimum inhibitory concentration 16 µg/mL). Next, we employed the use of carbohydrate stabilizers to increase the stability of silver nanoparticles during a freeze-drying process.

Antibacterial Activity and Increased Freeze-Drying ...

Antibacterial Activity and Increased Freeze-Drying Stability of Sialyllactose-Reduced Silver Nanoparticles Using Sucrose and Trehalose

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Antibacterial Activity And Increased Freeze Drying ...

Antibacterial Activity And Increased Freeze Drying Active multilayer systems stored in hermetically closed bottles increased their antimicrobial activity after 10 days by inhibiting the growth of *Staphylococcus aureus*.

Antibacterial Activity And Increased Freeze Drying

Antibacterial Activity and Increased Freeze-Drying Stability of Sialyllactose-Reduced Silver Nanoparticles Using Sucrose and Trehalose Chemical Constituents of *Salix babylonica* L. and Their ... Antimicrobial activity and action mechanism of triglycerol monolaurate on common foodborne pathogens ...

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The antimicrobial activity of P2 ($77.51 \pm 2.05\%$) was significantly higher than the other two peaks (Fig. 1D). The P2 peak with the highest activity was further subjected to C18 column. Four peaks (P2a, P2b, P2c, P2d) were obtained (Fig. 1E), and P2d exhibited

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the maximum antimicrobial activity (90.41 ± 2.33) among all of the peaks (Fig. 1F ...

Identification and antimicrobial mechanisms of a novel ...

The strengthened antimicrobial activity of ABP-CM4N may be associated with the increased membrane binding capacity, being two times that of ABP-CM4 ($p < 0.001$). The antibacterial mechanism of ABP-CM4N to *Pseudomonas aeruginosa* was examined by means of cell membrane integrity analysis, the intracellular ultrastructure change observation and E ...

Antimicrobial activity and mechanism of peptide CM4 ...

The antibacterial activity of ZnO has been found to be due to a reaction of the ZnO surface with water. Electron-spin resonance measurements reveal that aqueous suspensions of small nanoparticles of ZnO produce increased levels of reactive oxygen species, namely hydroxyl radicals.

Enhanced Antibacterial Activity of Nanocrystalline ZnO Due ...

Antibacterial activity of fermented food and beverages is well known and the activity is due to the generation of numerous bioactive compounds that can inhibit the growth of food-borne pathogens. The results demonstrated very strong antibacterial activity for the FDFJ in comparison to the N-FDFJ towards the targeted pathogens (Table 1).

Effects of metabolite changes during lacto-fermentation on ...

Introduction. *Klebsiella pneumoniae* is a highly pathogenic bacterium that is of particular interest because of the large number of strains that have developed antibiotic resistance. The increase in MDR in *K. pneumoniae*, which can express ESBLs or AmpC β -lactamases, has led to widespread use of carbapenem antibiotics. 1 As a result, however, observations of *K. pneumoniae* that produce ...

Antibacterial activity and mechanism of action of ...

3.2.2. Antimicrobial Activity of *Origanum majorana*. Both inhibitory and bactericidal effects of *Origanum majorana* on

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Escherichia coli and Klebsiella pneumoniae were observed with the crude extract of the plant, the petroleum ether, the dichloromethane, the ethyl acetate, and the aqueous fractions. MIC 90 was not always easy to calculate in view of the unavailability of enough extract or the ...

Antibacterial Activity of the Extracts Obtained from ...

The result from this study manifested that the sponge fabricated with freeze-drying could be used for antibacterial delivery. Doxycycline hyclate chitosan sponge might be developed to many products such as wound dressing or implant for the local applications that could reduce side effect and promote the therapeutic effectiveness.

Antibacterial Activity and Drug Release of Chitosan Sponge ...

The properties of bone scaffolds, including biocompatibility, osteoinductivity and antibacterial activity, are of great importance for reconstruction of large bone defects and prevention of implant-associated infections. Herein, we develop an Ag-loaded strontium hydroxyapatite (SrHAP)/chitosan (CS) ...

Enhanced antibacterial activity and osteoinductivity of Ag

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Glyphosate is an aminophosphonic analogue of the natural amino acid glycine and, like all amino acids, exists in different ionic states depending on pH. Both the phosphonic acid and carboxylic acid moieties can be ionised and the amine group can be protonated and the substance exists as a series of zwitterions. Glyphosate is soluble in water to 12 g/l at room temperature.

Glyphosate - Wikipedia

Literature lacks sufficient data regarding addition of natural antibacterial agents to glass ionomer cement (GICs). Hence, the aim of the study was to increase the antimicrobial properties of GICs through its modification with mixture of plant extracts to be evaluated along with an 0.5% chlorhexidine-modified GIC (CHX-GIC) with regard to biological and compressive strength properties.

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The rheological data and SEM images provided further evidence for network formation in the emulsions with increased ChNF concentration. Furthermore, the antimicrobial activity of the emulsion against *Escherichia coli* and the release patterns of EOs from emulsions were also investigated. The emulsions showed prolonged antibacterial activities ...

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