

## Effect Of Vanillin On Lactobacillus Acidophilus And

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Lactobacillus plantarum cultures exposed to 70 mmol l<sup>-1</sup> vanillin had only 10% of cells with damaged membranes after 60 min, this level increased to 55% after overnight incubation. Similarly L. innocua cultures exposed to 50 mmol l<sup>-1</sup> vanillin had only a small proportion of cells with damaged membranes (4% after 60 min), however unlike Lact. plantarum cultures this level did not increase overnight.

Mode of antimicrobial action of vanillin against ...

The purpose of this study, determines the effects of different doses of Vanillin at 0.2%, 0.4% , 0.6% and 0.8%(w/v), in two passages After and Before incubation, on the growth of two probiotic bacteria (Bifidobacterium bifidum and Lactobacillus acidophilus ) in produced yoghurt. The vanillin yoghurt was produced by Tamime, standard methods.

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Methods and results: In laboratory media, MICs of 15, 75 and 35 mmol l<sup>-1</sup> vanillin were established for E. coli, Lact. plantarum and L. innocua, respectively. The observed inhibition was found to be bacteriostatic. Exposure to 10-40 mmol l<sup>-1</sup> vanillin inhibited respiration of E. coli and L. innocua. Addition of 50-70 mmol l<sup>-1</sup> vanillin to bacterial cell suspensions of the three organisms led to an increase in the uptake of the nucleic acid stain propidium iodide; however a significant ...

Mode of antimicrobial action of vanillin against ...

vanillin inhibition of several food-related bacteria, namely E. coli, Lactobacillus plantarum and Listeria innocua. The effect of vanillin addition on respiration, membrane integrity, the potassium gradient, pH homeostasis and ATP pools was investigated. MATERIALS AND METHODS Bacterial strains and culture conditions

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The vanillin material was prepared in this study by the use of pure vanillin (2%). Two

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microorganisms were selected to examine the antimicrobial activity of the vanillin against dental caries. These microorganisms are Streptococcus mutans and Lactobacillus; both are isolated from the dental plaque on the carious surface and from saliva.

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Rupasinghe et al. (2006), also, reported a dose-dependent inhibitory activity of vanillin against E. coli, Enterobacter aerogenes, Salmonella. enterica subsp. enterica serovar Newport and Lactobacillus casei, with MIC ranging from 6–19 mM. Though our results are in agreement, from a qualitative standpoint, with the findings of the latter work, there are discrepancies concerning the ...

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## Effect Of Vanillin On Lactobacillus Acidophilus And

This work investigated the effects of chemical additive vanillin (V), homofermentative Lactobacillus plantarum (LP), and heterofermentative Lactobacillus brevis (LB) on the distribution of the metabolome, microbial communities, viruses, and antibiotic-resistance genes in high-moisture corn kernel silage. LP and LB improved lactic acid production, whereas V and LB inhibited protein degradation.

Additives affect the distribution of metabolic profile ...

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Abstract This work investigated the effects of chemical additive vanillin (V), homofermentative Lactobacillus plantarum (LP), and heterofermentative Lactobacillus brevis (LB) on the distribution of the metabolome, microbial communities, viruses, and

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antibiotic-resistance genes in high-moisture corn kernel silage.

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