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Lactobacillus Acidophilus And

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quality of other books.”

### **Effect Of Vanillin On Lactobacillus**

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

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bifidum and Lactobacillus acidophilus ) in produced yoghurt. The vanillin yoghurt was produced by Tamime, standard methods.

### **Effect of Vanillin on Lactobacillus acidophilus And ...**

Thus, these results indicate that vanillin has a positive effect on the growth of

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Lactobacillus acidophilus. The mixture of Lactobacillus acidophilus and Bifidobacterium bifidum yoghurt with 0.8%, 0.6%, 0.4% vanillin and finally the controlled sample respectively reached the acidity of 72°Dornic which it was faster than before.

### **Effect of Vanillin on Lactobacillus**

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### **acidophilus And ...**

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



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damaged membranes (4% after 60 min), however unlike Lact. plantarum cultures this level did not increase overnight.

### **Mode of antimicrobial action of vanillin against ...**

vanillin inhibition of several food-related bacteria, namely E. coli, Lactobacillus plantarum and Listeria innocua. The

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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

**Mode of antimicrobial action of vanillin against ...**

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The effect of the combination of vanillin and chitosan (VC) coating on the microbiota composition and shelf-life of turbot (*Scophthalmus maximus*) filets during a 15-day storage period at  $4 \pm 1^\circ\text{C}$  was investigated in this study. The control and coated fish samples were analyzed periodically for sensory and chemical attributes [total volatile

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basic nitrogen (TVB-N), thiobarbituric acid ...

### **Frontiers | Effect of the Combination of Vanillin and ...**

Exposure to 50 mmol l(-1) vanillin completely dissipated potassium ion gradients in cultures of Lact. plantarum within 40 min, while partial potassium

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gradients remained in cultures of *E. coli* and *L. innocua*. Furthermore, the addition of 100 mmol l(-1) vanillin to cultures of *Lact. plantarum* resulted in the loss of pH homeostasis.

### **Mode of antimicrobial action of vanillin against ...**

This study aimed to evaluate the effects

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of fermentation with lactic acid bacteria (LAB) on organic acids, ascorbic acid, phenolic compounds, anthocyanins, and carotenoids of sweet orange (*Citrus sinensis*) juices. Juices from 'Tarocco' and 'Washington navel' oranges were fermented at 30 °C for 48 h with *L. plantarum*, *L. rhamnosus*, *L. paracasei*, and *L. brevis* without supplementation.

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## **Effects of Lactobacillus spp. on the phytochemical ...**

Vanillin can be used in food and beverage applications as a flavoring agent. Though it's considered safe, some are convinced it has potentially dangerous health effects. What Is Vanillin? Vanillin is a phenolic aldehyde,

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an organic compound with the molecular formula  $C_8H_8O_3$ . Vanillin is widely used in making foods, drinks, tobacco, wines, medicines, chemicals and [...]

### **Vanillin Side Effects, Side Effects of Vanillin**

At higher concentrations, however, Fitzgerald et al. (2004) found that



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vanillin may have antimicrobial activity against *E. coli*, *Listeria innocua* and *Lactobacillus plantarum*. According to these authors, vanillin affects the integrity of the cytoplasmic membrane causing loss of ion gradients and pH homeostasis.

### **Effect of phenolic aldehydes and**

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## **flavonoids on growth and ...**

The antimicrobial effect of vanillin against four pathogenic or indicator organisms; Escherichia coli, Pseudomonas aeruginosa, Enterobacter aerogenes, and Salmonella enterica subsp. enterica ...

## **Effect of Vanillin, Ethyl Vanillin, and**

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## **Vanillic Acid on ...**

The isolated bacterium *Lactobacillus plantarum* is strongly tolerant of lignocellulose-derived inhibitory compounds and possesses the ability to produce lactic acid in the presence of 8.0 g/L furfural, 6.0 g/L hydroxymethylfurfural, 4.0 g/L vanillin, and 4.0 g/L syringaldehyde. This

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bacterium was used in an integrated simultaneous saccharification and fermentation (SSF) process for the production of lactic acid using whole rice straw slurry (with a high solids content of 17%) that had been ...

**Using novel Lactobacillus plantarum to produce lactic acid ...**

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Effect of Lactobacillus on the incidence and severity of acute rotavirus diarrhoea in infants. A prospective placebo-controlled double-blind study. Nutr Res 2001;22:65-9.

### **Lactobacillus: Uses, Side Effects, Interactions, Dosage ...**

Jansson, T. and Zech, L. Effects of

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vanillin on sister-chromatid exchanges and chromosome aberrations in human lymphocytes. Mutat.Res 1987;190(3):221-224. View abstract.

### **Vanilla: Uses, Side Effects, Interactions, Dosage, and Warning**

However, many people have no side effects or only have minor side effects.

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Call your doctor or get medical help if any of these side effects or any other side effects bother you or do not go away: Gas. Upset stomach or throwing up. Not hungry. Stomach cramps. Dry mouth. Headache. These are not all of the side effects that may occur.

**Lactobacillus Side Effects: Common,**

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## **Severe, Long Term ...**

Serum biochemical parameters changes due to effect of Lactobacillus plantarum VSG3 at  $10^4$  ,  $10^6$  ,  $10^8$  and  $10^{10}$  Colony Forming Units (CFU)/mL on Nile tilapia. ... Sulfo-Phospho-Vanillin ...

## **(PDF) EFFECT OF PLANT BIOPSIES LACTOBACILLUS PLANTARUM ...**



## Acces PDF Effect Of Vanillin On Lactobacillus Acidophilus And

Lactobacillus rhamnosus GG is an industrially significant probiotic strain with proven health benefits. In this study, the effect of glucose on L. rhamnosus GG survival was analyzed in simulated gastric juice at pH 2.0. It was found that the presence of 19.4 mM glucose resulted in up to 6-log<sub>10</sub>-enhanced survival following 90 min of

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exposure. Further work with dilute HCl confirmed that glucose ...

### **Survival of Probiotic Lactobacilli in Acidic Environments ...**

vanillic acid. However *Oenococcus oeni* or *Lactobacillus* sp. could convert ferulic acid to vanillin, but in low yield. Only *Lactobacillus* sp. or *Pediococcus* sp.

## Acces PDF Effect Of Vanillin On Lactobacillus Acidophilus And

strains were able to produce significant quantities of 4-vinylguaiacol from feru-lic acid. Moreover, LAB reduced vanillin to the corresponding vanillyl alcohol.

### **Vanillin production from simple phenols by wine-associated ...**

Fitzgerald et al. (37) studied the effects of carvacrol and vanillin on E. coli,

## Acces PDF Effect Of Vanillin On Lactobacillus Acidophilus And

Lactobacillus plantarum, and Listeria innocua. At concentrations of 7.6 and 0.496 ml/l of vanillin and carvacrol, respectively, they saw that intracellular potassium levels decreased and the extracellular potassium levels increased in all organisms.

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