Title (en)

NOVEL LACTIC ACID BACTERIA STRAINS THAT PROMOTE THE ABSORPTION OF CALCIUM - PEPTIDES AND ASSOCIATED PRODUCTS

Title (de)

NEUARTIGE MILCHSÄUREBAKTERIENSTÄMME ZUR FÖRDERUNG DER ABSORPTION VON CALCIUM-PEPTIDEN UND ASSOZIIERTEN PRODUKTEN

Title (fr)

NOUVELLES SOUCHES DE BACTERIES LACTIQUES FAVORISANT L'ABSORPTION DU CALCIUM - PEPTIDES ET PRODUITS ASSOCIES

Publication

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Application

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Abstract (en)

[origin: WO2020188181A1] The present invention relates to the Lactobacillus helveticus VF45A strain filed with the CNCM under the order number CNCM-I-5300, mutants and variants thereof having at least 80% identity, preferably at least 90% identity, preferably at least 95% identity with the genome of said VF45A strain and capable of producing at least one peptide corresponding to the SEQ ID 1 to SEQ ID NO 43 sequences and/or capable of reducing the pH of milk, in particular cow's milk and in particular skimmed cow's milk, by anaerobic fermentation, to a value substantially equal to or less than 3.36, in particular equal to 3.32 after 48 hours of fermentation at 37°C. The present invention also relates to isolated peptides that may be obtained by fermentation of milk, in particular cow's milk, by the aforementioned strain. The present invention also relates to the Lactobacillus helveticus VFH049 strain filed with the CNCM under the order number CNCM-I-5403 and mutants and variants thereof having at least 80% identity, preferably at least 90% identity, preferably at least 95% identity with the genome of said VFHD49 strain and capable of producing at least one peptide corresponding to the SEQ ID 44 to SEQ ID NO 86 sequences and/or capable of increasing the intestinal absorption of calcium. The present invention also relates to an isolated peptide, a mixture of peptides and associated products and compositions and the Lactobacillus delbrueckii ssp. bulgaricus VF50b strain filed with the CNCM under the order number CNCM-I-5316 and mutants and variants thereof having at least 80% identity, preferably at least 90% identity, preferably at least 95% identity with the genome of said VF50b strain and capable of producing at least one peptide corresponding to the SEQ ID 87 to SEQ ID NO 199 sequences and/or capable of increasing the intestinal absorption of calcium. The present invention also relates to an isolated peptide, a mixture of peptides and associated pharmaceutical and food compositions.

IPC 8 full level

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