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(54) Title: LACTIC ACID BACTERIA CAPABLE OF REDUCING AN INDIVIDUAL'S TENDENCY TO DEVELOP ALLERGIC REACTIONS

(57) Abstract: The present invention pertains to novel strains of lactic acid bacteria that are capable to reduce an individual's tendency to mount allergic reactions. In particular, the present invention relates to the generation of lactic acid bacteria strains that express proteins including tolerogenic peptides and the use thereof in reducing an individual's tendency to mount allergic reactions. The invention also pertains to food or pharmaceutical compositions containing said micro-organisms or active fractions thereof.

Peptide T1 H_2N-A-L-K-COOH (139-141)

Peptide T2 H_2N-H-I-R-COOH (146-148)

Peptide T3 H_2N-F-D-K-COOH (136-138)

Peptide T4 H_2N-I-I-A-E-K-COOH (71-75)

Peptide T5 H_2N-E-N-G-E-C-A-Q-K-COOH (62-69)

Peptide T6 H_2N-I-D-A-L-N-E-N-K-COOH (84-91)

Peptide T7 H_2N-G-L-D-I-Q-K-COOH (9-14)

Peptide T8 H_2N-A-L-P-M-COOH (142-145)

Peptide T9 T10, T11 H_2N-W-E-N-G-E-C-A,-Q,-K,-COOH (61-67,-68,-69)

Peptide T12 H_2N-T-P-E-V-D-D-E-A-L-E-K-COOH (125-135)

Peptide T13 H_2N-L-I-V-T-Q-T-M-K-COOH (1-8)

Peptide T14 H_2N-A-L-P-M-H-I-R-COOH (142-148) = T8 (142-145) + T2 (146-148)

Peptide T15 H_2N-I-P-A-V-F-K-COOH (78-82)

Peptide T16 H_2N-V-A-G-T-W-Y-COOH (15-20)

Peptide T17 H_2N-V-L-V-L-D-T-D-Y-K,-K-COOH (92-99,100)

Peptide T18 H_2N-T-P-E-V-D-D-E-A-L-E-K-F-D-K-COOH (125-138) = T12 (125-135) + T3 (136-138)

Peptide T19 H_2N-A-A-S-D-I-S-L-L-D-A-Q-S-A-P-L-R-COOH (25-40)

Peptide T20, T21 (61, 62-69).S-S (149-162)

H_2N-W,-E-N-G-E-C-A-Q-K-COOH

H_2N-L-S-F-N-P-T-Q-L-E-E-Q-C-H-I-COOH

Peptide T22 H_2N-S-L-A-M-A-A-S-D-I-S-L-L-D-A-Q-S-A-P-L-R-COOH (21-40)

Peptide T23 H_2N-V-Y-V-E-E-L-K-P-T-P-E-G-D-L-E-I-L-L-Q-K-COOH (41-60)

Peptide T24 H_2N-L-S-F-N-P-T-Q-L-E-E-Q-C-H-I-COOH (149-162)

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