

Claims

1. A method of making a protein hydrolysate formula for downregulating hypersensitivity reactions and for promoting gut immune barrier, comprising the steps of
5 hydrolysing proteins with enzymes derived from a bacterial preparation comprising probiotic gastrointestinal bacteria, especially *Lactobacilli*, which have adhesive and colonizing characteristics and a protease enzyme system which are similar to those of the strain *Lactobacillus* GG (ATCC 53103), and with pepsin and/or trypsin.
- 2.. The method as defined in claim 1 wherein the enzymes
15 are derived from a bacterial preparation comprising *Lactobacillus* GG (ATCC 53103).
3. A method of making a protein hydrolysate formula for downregulating hypersensitivity reactions and for promoting gut immune barrier, comprising the steps of
20 hydrolysing proteins with pepsin and/or trypsin, and adding to the hydrolysate a bacterial preparation comprising probiotic gastrointestinal bacteria, especially *Lactobacilli*, which have adhesive and colonizing characteristics and a protease enzyme system which are similar to those of the strain *Lactobacillus* GG (ATCC 53103).
- 25 4. The method as defined in claim 3 wherein the bacterial preparation comprises *Lactobacillus* GG (ATCC 53103).
- 30 5. A protein hydrolysate formula for downregulating hypersensitivity reactions and for promoting gut immune barrier, which hydrolysate is obtainable by the method as defined in any one of claims 1 to 4.
- 35 6. ^(A) ~~A method of~~ preventing or treating food-induced hypersensitivity reactions in an infant, comprising

~~administering to an infant at risk the~~ protein hydrolysate formula according to claim 5 ~~for the manufacture of a formula for~~ (A)

7. ~~A method of~~ treating cow's milk allergy in a patient (B) ~~comprising administering to the patient the~~ ^{Use of a} protein hydrolysate formula ~~made~~ according to claim 15 ~~for the manufacture of a formula for~~ (B) ↑

8. ~~A method of~~ promoting tolerogenic immune responses to food antigens in a patient (C) ~~comprising oral administration of the~~ ^{Use of a} protein hydrolysate formula according to claim 5 ~~for the manufacture of a formula to be administered orally for~~ (C).

9. ~~A method of~~ preventing or treating food-induced hypersensitivity reactions in an infant, comprising (D) ~~administering to an infant at risk of~~ ^{Use of a} protein hydrolysate formula ~~made according to claim 1~~ together with a bacterial preparation comprising probiotic gastrointestinal bacteria, especially Lactobacilli, which have adhesive and colonizing characteristics and a protease enzyme system which are similar to those of the strain Lactobacillus GG (ATCC 53103) ~~for the manufacture of a formula for~~ ↑

10. ~~A method of~~ treating cow's milk allergy in a patient (E) ~~comprising administering to the patient~~ ^{Use of a} a protein hydrolysate formula together with a bacterial preparation comprising probiotic gastrointestinal bacteria, especially Lactobacilli, which have adhesive and colonizing characteristics and a protease enzyme system which are similar to those of the strain Lactobacillus GG (ATCC 53103) ~~for the manufacture of a formula for~~ (E) ↑

11. ~~A method of~~ promoting tolerogenic immune responses to food antigens in a patient (F) ~~comprising oral administration of~~ ^{Use of a} a bacterial preparation comprising probiotic gastrointestinal bacteria, especially Lactobacilli, which have adhesive and colonizing characteristics and a protease enzyme system which are similar to those of the strain Lactobacillus GG (ATCC 53103), or a protein

(**) Corrected by PF23 attached (not an amendment)

hydrolysate formula together with a bacterial preparation comprising probiotic gastrointestinal bacteria, especially Lactobacilli, which have adhesive and colonizing characteristics and a protease enzyme system which are similar to those of the strain *Lactobacillus* GG (ATCC 53103).

5 for the manufacture of a formula for (F)

12. The ^{use}method according to any one of claims 9 to 11 wherein the bacterial preparation comprises *Lactobacillus* GG (ATCC 53103).