CLAIMS

1. Use of a fermented soy extract for manufacture of a medicament for reducing adverse gastrointestinal effects caused by abnormal microbial balance in the gastrointestinal tract due to the antibiotic treatment in a human or a non-human animal, wherein the fermented soy extract is made by a process comprising the steps of (a) fermenting an aqueous soy bean extract with at least one lactic acid bacteria and together with at least one yeast to form a fermented liquid; (b) sterilizing said fermented liquid; (c) filtering said sterilized fermented liquid; and (d) removing water from said filtered fermented liquid to form a concentrated fermented soy extract.

2. The use of claim 1, wherein the at least one lactic acid bacteria is a *Lactobacillus* species and the yeast is a *Saccharomyces* species.

3. The use of claim 1, wherein the medicament is for oral administration.

4. The use of claim 1, wherein the human or non-human animal undergoes antibiotic treatment.

5. The use of claim 4, wherein the antibiotic treatment involves administration of a beta-lactam antibiotic to the human or non-human animal.

6. The use of claim 5, wherein the antibiotic is selected from the group consisting of ampicillin, amoxicillin and a combination thereof.

7. A pharmaceutical composition for use in reducing adverse gastrointestinal effects caused by abnormal microbial balance in the gastrointestinal tract due to the antibiotic treatment in a human or a non-human animal, comprising a fermented soy extract as a prebiotic agent, wherein the fermented soy extract is made by a process comprising the steps of (a) fermenting an aqueous soy bean extract with at least one lactic acid bacteria and together with at least one yeast to form a fermented liquid; (b) sterilizing said fermented liquid; (c) filtering said sterilized fermented liquid; and (d) removing water from said filtered fermented liquid to form a concentrated fermented soy extract.

8. The pharmaceutical composition of claim 7, wherein the at least one lactic acid bacteria is a *Lactobacillus s*pecies and the yeast is a *Saccharomyces* species.

9. The pharmaceutical composition of claim 7, which is for oral administration.

10. The pharmaceutical composition of claim 7, wherein the antibiotic is a beta-lactam antibiotic, preferably wherein the antibiotic is selected from the group consisting of ampicillin, amoxicillin and a combination thereof.

5