Claims

1. Use of *Bifidobacterium longum* NK49 accession number KCCM12088P in the manufacture of a medicament for treating female menopausal disorders, wherein the female menopausal disorder is at least one selected from the group consist of hot flush, facial flushing, depression, anxiety, vaginal dryness, vaginal atrophy, obesity, and osteoporosis.

2. The use of claim 1, wherein the medicament further comprises *Lactobacillus plantarum* NK3 accession number KCCM12089P.

3. The use of claim 1, wherein *Bifidobacterium longum* NK49 is a live bacterial body thereof, a dead bacterial body thereof, a culture thereof, a lysate thereof, or an extract thereof.

4. The use of claim 2, wherein *Lactobacillus plantarum* NK3 is a live bacterial body thereof, a dead bacterial body thereof, a culture thereof, a lysate thereof, or an extract thereof.

5. The use of claim 1, wherein the *Bifidobacterium longum* NK49 comprises a 16S rDNA sequence of SEQ ID NO: 2.

6. The use of claim 2, wherein *Lactobacillus plantarum* NK3 comprises a 16S rDNA sequence of SEQ ID NO: 1.

7. The use of claim 1, wherein the female menopausal disorder is osteoporosis, obesity, or depression.

8. The use of claim 2, wherein the ratio of mixture of *Lactobacillus plantarum* NK3 and *Bifidobacterium longum* NK49 is 1:1 to 4:1 CFU.

9. A pharmaceutical composition comprising *Bifidobacterium longum* NK49

accession number KCCM12088P for use in treatment of female menopausal disorders, wherein the female menopausal disorder is at least one selected from the group consist of hot flush, facial flushing, depression, anxiety, vaginal dryness, vaginal atrophy, obesity, and osteoporosis.

10. The pharmaceutical composition of claim 9, wherein the pharmaceutical composition further comprises *Lactobacillus plantarum* NK3 accession number KCCM12089P.

11. The pharmaceutical composition of claim 9, wherein the female menopausal disorder is osteoporosis, obesity, or depression.

12. A health functional food comprising *Bifidobacterium longum* NK49 accession number KCCM12088P for use in amelioration of female menopausal disorders, wherein the female menopausal disorder is at least one selected from the group consist of hot flush, facial flushing, depression, anxiety, vaginal dryness, vaginal atrophy, obesity, and osteoporosis.

13. The health functional food of claim 12, wherein the health functional food further comprises *Lactobacillus plantarum* NK3 accession number KCCM12089P.

14. The health functional food of claim 12, wherein the female menopausal disorder is osteoporosis, obesity, or depression.