Claims

1. Use of *Bifidobacterium longum* NK49 accession number KCCM12088P~~(accession number: KCCM12088P)~~ in the manufacture of a medicament for preventing or 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, hypertension, diabetes, and osteoporosis.

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

3. The use of claim 1, wherein *Bifidobacterium longum* NK49 ~~(accession number:KCCM12088P)~~ 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 ~~(accession number:KCCM12089P)~~ 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 ~~(accession number:KCCM12088P)~~ comprises a 16S rDNA sequence of SEQ ID NO: 2.

6. The use of claim 2, wherein *Lactobacillus plantarum* NK3 ~~(accession number:KCCM12089P)~~ comprises a 16S rDNA sequence of SEQ ID NO: 1.

~~7. The use of claim 1, wherein the female menopausal disorder is at least one selected from the group consist of hot flush, sweating, facial flushing, depression, anxiety, vaginal dryness, vaginal atrophy, urinary incontinence, obesity, hypertension, diabetes, skin aging and osteoporosis.~~

~~8~~7. The use of claim ~~7~~1, wherein the female menopausal disorder is osteoporosis, obesity, or depression.

~~9~~8. The use of claim 2, wherein the ratio of mixture of *Lactobacillus plantarum* NK3 ~~(accession number: KCCM12089P)~~ and *Bifidobacterium longum* NK49 ~~(accession number: KCCM12088P)~~ is 1:1 to 4:1 CFU.

~~10~~9. A pharmaceutical composition comprising *Bifidobacterium longum* NK49 accession number KCCM12088P for use in prevention or 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, hypertension, diabetes, and osteoporosis.~~for use in prevention or treatment female menopausal disorders comprising Bifidobacterium longum NK49 (accession number:KCCM12088P).~~

1~~1~~0. The pharmaceutical composition of claim ~~10~~9, wherein the pharmaceutical composition further comprises *Lactobacillus plantarum* NK3 accession number KCCM12089P~~(accession number:KCCM12089P)~~.

~~12. The pharmaceutical composition of claim 10, wherein the female menopausal disorder is at least one selected from the group consist of hot flush, sweating, facial flushing, depression, anxiety, vaginal dryness, vaginal atrophy, urinary incontinence, obesity, hypertension, diabetes, skin aging and osteoporosis.~~

1~~3~~1.~~.~~ The pharmaceutical composition of claim ~~12~~9, wherein the female menopausal disorder is osteoporosis, obesity, or depression.

1~~4~~2. A health functional food comprising *Bifidobacterium longum* NK49 accession number KCCM12088P for use in prevention or amelioration of female menopausal disorders,~~for use in prevention or amelioration female menopausal disorders~~

~~comprising *Bifidobacterium longum* NK49 (accession number:KCCM12088P).~~ 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, hypertension, diabetes, and osteoporosis.

~~15~~13. The health functional food of claim ~~14~~12, wherein the health functional food further comprises *Lactobacillus plantarum* NK3 accession number KCCM12089P ~~(accession number:KCCM12089P)~~.

~~16. The health functional food of claim 14, wherein the female menopausal disorder is at least one selected from the group consist of hot flush, sweating, facial flushing, depression, anxiety, vaginal dryness, vaginal atrophy, urinary incontinence, obesity, hypertension, diabetes, skin aging and osteoporosis.~~

17~~4~~. The health functional food of claim ~~16~~12, wherein the female menopausal disorder is osteoporosis, obesity, or depression.