CLAIMS

1. A method for producing a recombinant protein, the method comprising:

a first step of culturing a recombinant cell expressing a recombinant protein under control of an inducible promoter in a medium containing galactose and at least two selected from the group consisting of mannitol, raffinose, and melibiose; and

a second step of further culturing the recombinant cell under a condition that expression from the inducible promoter is induced after the first step,

wherein the recombinant cell is a microorganism belonging to the genus *Escherichia*.

2. The production method according to claim 1, wherein the inducible promoter is an isopropyl-β-thiogalactopyranoside (IPTG) inducible promoter.

3. The production method according to claim 1 or 2, wherein the inducible promoter is a T7 promoter.

4. The production method according to claim 2 or 3, wherein the second step is a step of adding IPTG to the medium and further culturing the recombinant cell.

5. The production method according to any one of claims 1 to 4, wherein the medium contains galactose, mannitol, raffinose, and melibiose.

6. The production method according to any one of claims 1 to 4, wherein the medium contains galactose, mannitol, and raffinose.

7. The production method according to any one of claims 1 to 6, wherein the recombinant protein is a structural protein.

8. The production method according to any one of claims 1 to 7, wherein the recombinant protein is fibroin.

9. The production method according to any one of claims 1 to 8, wherein the recombinant protein is spider silk fibroin.

~~10. The production method according to any one of claims 1 to 9, wherein the recombinant cell is a bacillus.~~

~~11. The production method according to any one of claims 1 to 10, wherein the recombinant cell is a microorganism belonging to the genus *Escherichia*.~~