Claims

1. A method for modifying a sheet-shaped cell culture containing skeletal myoblast cells and fibroblast cells , comprising:

immersing the sheet-shaped cell culture containing at least skeletal myoblast cells and fibroblast cells in Hanks' balanced salt solution, whereby a content ratio of the cell types constituting the sheet-shaped cell culture is changed.

2. The method according to claim 1,

wherein modification is to reduce a content of fibroblast cells.

3. The method according to claim 1 or 2,

wherein the sheet-shaped cell culture has been separated from a culture substrate.

4. The method according to claim 3,

wherein the sheet-shaped cell culture has contracted upon the separation.

5. The method according to claim 3 or 4,

wherein the sheet-shaped cell culture has an area of not less than 6 cm^2 after the separation.

6. The method according to any one of claims 1 to

5,

wherein the sheet-shaped cell culture includes a plurality of single layer sheet-shaped cell cultures stacked together.

7. The method according to any one of claims 1 to 6,

wherein the immersing is conducted for 24 to 150 hours.

8. The method according to any one of claims 1 to 7,

wherein the immersing is conducted at 2˚C to 8˚C.

9. A method for producing a sheet-shaped cell culture, comprising the following steps (a), (b), and (c):

(a) seeding a cell population, which contains skeletal myoblast cells and fibroblast cells on a culture substrate at a density capable of forming a sheet-shaped cell culture without substantial proliferation;

(b) subjecting the seeded cell population to sheet-forming culture to form the sheet-shaped cell culture; and

(c) immersing the formed sheet-shaped cell culture in Hanks' balanced salt solution.

10. The method according to claim 9, comprising, before the step (c), the following step (c'):

(c') separating the formed sheet-shaped cell culture.

11. The method according to claim 9, comprising, after the step (c), the following step (c'):

(c') separating the formed sheet-shaped cell culture.

12. The method according to claim 10 or 11,

wherein in the step (c') the sheet-shaped cell culture contracts upon the separation.

13. The method according to any one of claims 10 to 12,

wherein the separated sheet-shaped cell culture has an area of not less than 6 cm^2.

14. The method according to any one of claims 10 to 13, further comprising, after the step (c'), the following step (c''):

(c'') stacking together a plurality of separated or sheet-shaped cell culture.