Claims

1. A medium composition that is suitable for culturing cells or tissues in a suspended state, which medium composition comprises a nanofiber dispersed in a liquid medium, wherein the nanofiber is constituted of a polysaccharide comprising a non-water-soluble polysaccharide selected from the group consisting of chitin and chitosan.

2. The medium composition according to claim 1, having a viscosity of not more than 8 mPa•s.

3. The medium composition according to claim 1, wherein the aforementioned nanofiber has an average fiber diameter of 0.001 - 1.00 μm, and a ratio of an average fiber length (L) to the average fiber diameter (D) (L/D) is 2 - 500.

4. The medium composition according to claim 1, wherein the aforementioned nanofiber is obtained by pulverization.

5. The medium composition according to any one of claims 1 to 4, wherein the aforementioned cell is an adherent cell or a non-adherent cell.

6. A cell or tissue culture comprising the medium composition according to any one of claims 1 to 5, and cells or tissues.

7. A method of recovering a cell or tissue, comprising separating the cell or tissue from the culture according to claim 6.

8. A production method of a sphere, comprising cultivating an adherent cell in the medium composition according to any one of claims 1 to 5.

9. A production method of the medium composition according to any one of claims 1 to 5, comprising mixing the nanofiber and a medium.

10. A preservation method of a cell or tissue, comprising preserving the cell or tissue in the medium composition according to any one of claims 1 to 5.

11. A transportation method of a cell or tissue, comprising transporting the cell or tissue in the medium composition according to any one of claims 1 to 5.

12. A method of proliferating a cell or tissue, comprising cultivating the cell or tissue in the medium composition according to any one of claims 1 to 5.

13. A method of passage culture of an adherent cell, comprising the following steps:
(1) suspension culturing an adherent cell in the medium composition according to any one of claims 1 to 5; and
(2) (i) adding a fresh medium composition according to any one of claims 1 to 5 to a culture containing the adherent cell obtained by the suspension culture of step (1), or (ii) adding a culture containing the adherent cell obtained by the suspension culture of step (1) entirely or partly to a fresh medium composition according to any one of claims 1 to 5, without a detaching operation of the cell from a culture container.