CLAIMS

1. A carrier for cell culture comprising a netting/mesh structure unit, the netting/mesh structure unit comprising:

at least a first netting/mesh film with a plurality of first meshes formed by crossing a plurality of first longitude lines and a plurality of first latitude lines, wherein the first netting/mesh film is biocompatible and hydrophilic; and

at least a second netting/mesh film with a plurality of second meshes formed by crossing a plurality of second longitude lines and a plurality of second latitude lines, wherein the second netting/mesh film is parallel to the first netting/mesh film and disposed under or on the first netting/mesh film.

2. A carrier for cell culture according to claim 1, wherein the netting/mesh structure unit comprises two layers of the first netting/mesh film and one layer of the second netting/mesh film, and wherein the second netting/mesh film is disposed between the two layers of the first netting/mesh film, or on the two layers of the first netting/mesh film, or under the two layers of the first netting/mesh film.

3. A carrier for cell culture according to claim 1, wherein the netting/mesh structure unit comprises at least three layers of the first netting/mesh film and one layer of the second netting/mesh film, and wherein the second netting/mesh film is disposed between any two layers of the first netting/mesh film, or on the three layers of the first netting/mesh film, or under the three layers of the first netting/mesh film.

4. A carrier for cell culture according to claim 1, wherein a material of the first netting/mesh film comprises polyethylene terephthalate (PET), and a material of the second netting/mesh film comprises polyethylene terephthalate (PET), polypropylene (PP), polyethylene (PE), polytetrafluoroethylene (PTFE) or nylon.

5. A carrier for cell culture according to claim 1, wherein the first netting/mesh film is of a netting/mesh material with hydrophilic surface treatment and the second netting/mesh film is of supportive netting/mesh material.

6. A carrier for cell culture according to claim 1, wherein an opening of any one of the first meshes is from 30 μm to 800 μm, and an opening of any one of the second meshes is from 1 mm to 5 mm.

7. A carrier for cell culture according to claim 1, wherein a type of the carrier is one or more columns by curling the netting/mesh structure unit, one or more columns by

sequent laminating the plural netting/mesh structure units, or a stacked body by randomly disposed packing the netting/mesh structure units.

8. A carrier for cell culture according to claim 1, wherein edge surrounds of the first netting/mesh film and the second netting/mesh film are sealed together by heat pressing, ultrasonic or adhesive treatment.

9. A carrier for cell culture according to claim 1, wherein openings of the first meshes of the first netting/mesh film are totally or partially the same.

10. A carrier for cell culture according to claim 1, wherein openings of the second meshes of the second netting/mesh film are totally or partially the same.

11. A carrier for cell culture according to claim 1, wherein any one of the first longitude lines, any one of the first latitude lines is of a width from 50 μm to 500 μm, wherein any one of the second longitude lines, or any one of the second latitude lines is of a width from 100 μm to 1000 μm.

12. A carrier for cell culture according to claim 1, wherein any one of the first longitude lines, any one of the first latitude lines is of a width from 50 μm to 250 μm, wherein any one of the second longitude lines, or any one of the second latitude lines is of a width from 250 μm to 500 μm.

13. A cell culture device comprising the carrier for cell culture according to claim 1 and a culturing chamber disposing the carrier for cell culture.

14. A cell culture device according to claim 13, wherein the netting/mesh structure unit is curled to form one or more columns to be put into the culturing chamber; or multitude of the netting/mesh structure units are sequent laminated to form one or more columns to be put into the culturing chamber; or multitude of the netting/mesh structure units are randomly disposed or packed to form a stacked body to be put into the culturing chamber.

15. A cell culture device according to claim 13, wherein the netting/mesh structure unit comprises two or three layers of the netting/mesh film and one layer of the second netting/mesh film, and wherein the second netting/mesh film is disposed between any two layers of the first netting/mesh film, or on all the layers of the first netting/mesh film, or under all the layers of the first netting/mesh film.

16. A cell culture device according to claim 13, wherein a material of the first netting/mesh film comprises polyethylene terephthalate (PET), and a material of the second netting/mesh film comprises polyethylene terephthalate (PET), polypropylene (PP), polyethylene (PE), polytetrafluoroethylene (PTFE) or nylon.

17. A cell culture device according to claim 13, wherein the first netting/mesh film is of a netting/mesh material with hydrophilic surface treatment and the second netting/mesh film is of supportive netting/mesh material.

18. A cell culture device according to claim 13, wherein an opening of any one of the first meshes is from 30 μm to 800 μm, and an opening of any one of the second meshes is from 1 mm to 5 mm.