[CLAIMS]

[Claim 1]

A method for producing a fibrin sheet containing at least one selected from the group consisting of cells and drugs in a fibrin gel, the method comprising:

a step 1 of applying a fibrinogen solution containing fibrinogen and at least one selected from the group consisting of cells and drugs dropwise onto a surface of a substrate made of a gelatin hydrogel;

a step 2 of adding thrombin to the fibrinogen solution on the surface of the substrate;

a step 3 of placing a support film on and in contact with a top surface of the fibrinogen solution to which the thrombin has been added;

a step 4 of forming a fibrin sheet containing the at least one selected from the group consisting of cells and drugs in a fibrin gel between the substrate and the support film by a reaction between the fibrinogen and the thrombin; and

a step 5 of melting the substrate at a temperature not lower than a melting temperature of the gelatin hydrogel to separate, from the substrate, the fibrin sheet supported by the support film.

[Claim 2]

The method for producing a fibrin sheet according

to claim 1, wherein the amount of fibrinogen contained in the fibrinogen solution is 0.4 to 2% by mass.

[Claim 3]

The method for producing a fibrin sheet according to claim 2, wherein the cells include iPS cell-derived cells.

[Claim 4]

The method for producing a fibrin sheet according to any one of claims 1 to 3, wherein

the fibrin sheet is a cell sheet containing at least a cell in the fibrin gel, and

the substrate is a cell culture substrate.

[Claim 5]

The method for producing a fibrin sheet according to any one of claims 1 to 4, further comprising, prior to the step 1, a step of heating an aqueous gelatin solution containing gelatin and water and then cooling the aqueous gelatin solution to obtain the gelatin hydrogel.

[Claim 6]

The method for producing a fibrin sheet according to any one of claims 1 to 5, wherein

the support film is a polypropylene sheet.

[Claim 7]

The method for producing a fibrin sheet according to any one of claims 1 to 6, wherein the substrate is melted at 30 to 40°C in the step 5.