ABSTRACT

THREE-LAYER LAMINATE INCLUDING EXTRA-CELLULAR MATRIX, SHEET-SHAPED CELL CULTURE, AND BIODEGRADABLE GEL IN THIS ORDER

An object of the present invention is to provide a laminate with higher operability in which breakage of a sheet-shaped cell culture due to spray pressure is reduced and a fibrin gel is formed on one surface of the sheet-shaped cell culture in spraying of a thrombin liquid. The above problem has been solved by, in production of a sheet-shaped cell culture, culturing cells on a temperature-responsive cell culture substrate, dripping fibrinogen onto a sheet-shaped cell culture having an extra-cellular matrix on a lower surface thereof, further spraying a thrombin liquid onto the sheet-shaped cell culture from an oblique direction, and providing a laminate having a fibrin gel layer only on one surface of the sheet-shaped cell culture and having an extra-cellular matrix layer on the opposite surface.

FIG. 1