ABSTRACT

CELL CULTURE MODULE

Provided is a means that applies uniform culture conditions to a plurality of porous polymer membranes and makes it possible to stably culture a large quantity of cells. A cell culture module that comprises: a top part; a bottom part; a side part that has a culture solution in/outflow port; a plurality of partition parts that partition a space that is formed by the top part, the bottom part, and the side part and have a culture solution in/outflow port; and porous polymer membranes that are respectively fixed in at least two interstitial spaces selected from the interstitial space between the top part and the adjacent partition part, the interstitial space between the bottom part and the adjacent partition part, and the plurality of interstitial spaces between adjacent partition parts. The porous polymer membranes have a three-layer structure that includes: a surface layer A and a surface layer B that have a plurality of pores; and a macrovoid layer that is sandwiched between surface layer A and surface layer B. The average pore diameter of the pores in surface layer A is smaller than the average pore diameter of the pores in surface layer B. The macrovoid layer has: a diaphragm that is bonded to surface layers A and B; and a plurality of macrovoids that are surrounded by the diaphragm and surface layers A and B. The pores in surface layers A and B communicate with the macrovoids.

[No Suitable Figure]