

Title (en)

CELL CULTURE CHAMBER AND METHOD FOR CULTIVATING CELLS AND FOR IN VITRO PRODUCTION OF CELL LAYERS AND ORGAN MODELS

Title (de)

ZELLKULTURKAMMER UND VERFAHREN ZUR KULTIVIERUNG VON ZELLEN UND ZUR IN VITRO HERSTELLUNG VON ZELLSCHICHTEN UND ORGANMODELLEN

Title (fr)

CHAMBRE DE CULTURE CELLULAIRE ET PROCÉDÉ DE MISE EN CULTURE DE CELLULES ET DE PRODUCTION IN VITRO DE COUCHES CELLULAIRES ET DE MODÈLES D'ORGANES

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Application

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Abstract (en)

[origin: CA3212075A1] The invention relates to a cell culture chamber (1) for the in vitro production and cultivation of cell layers and organ models with two first and second channels (3, 4) arranged one above the other and separated from one another by a porous membrane (8) with two side surfaces and through which flow can pass, wherein a cell substrate (9, 10) is formed in each case by the side surfaces of the membrane (8). The cell culture chamber (1) is characterized in that at least the inner walls of the first and the second channels (3, 4) consist of polybutylene terephthalate (PBT). The invention further relates to a method for cultivating human or animal cells, and in particular liver sinusoidal endothelial cells, alone and in co-culture with hepatocytes and immune cells.

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