

3D-матрицы для клеточных культур CellSCAFLD

Технические характеристики

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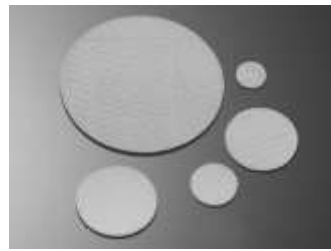
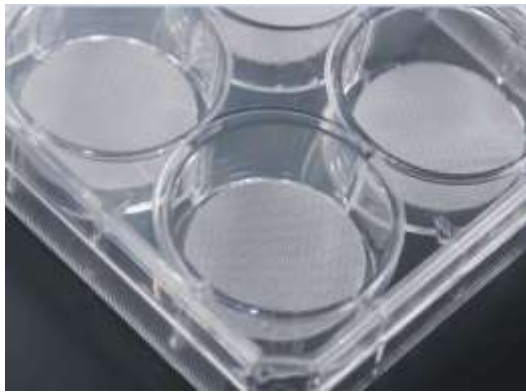
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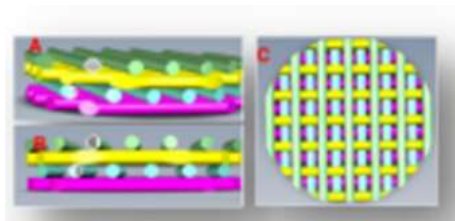
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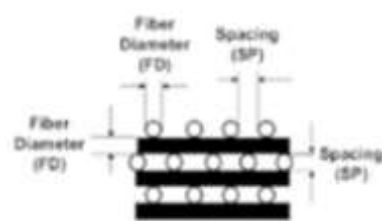
The conventional cell culture is performed using the 2D planes, the growth model of 2D cell culture that is very different from the in vivo 3D environment in vivo. There are all significantly differences among cellular morphology, cell differentiation, cell-matrix interaction and intercellular interaction. The 3D cell culture provides an ideal simulation environment for an in vivo pattern of cell growth.

The 3D cell culture scaffold produced by Jet Biofil (Patent No.: ZL201620728244.6, ZL201620728243.1 and 201510783345.3) is an ideal tool for studying 3D cell cultures, the mechanism of interaction between cells, cellular immunotherapy, stem cell therapy, drug screening and drug production. Furthermore, the cell culture area can be improved and the yield can be increased significantly.

This 3D cell culture scaffold can be used with 6, 12, 24 well culture plates and culture dishes of different sizes such as 3.5cm, 6.0cm, and 7.0cm.



Structural diagram of 3D cell culture scaffold: fibers between each layer alternate at 90°, and fibers parallel and not opposite between each 2 layers.



Average wire diameter: 500 μ m (FD); average spacing of wire column: 260 μ m(SP)

* Polystyrene (GPPS)

* Conforming to USP CLASS VI.

* Average wire diameter: 500μm; average spacing of wire column: 260μm, with high regularity. The product consists of a 3D porous structure with good connectivity, facilitating the transmission of different nutritional ingredients in the course of the 3D cell culture, and ensuring the consistency of metabolic activity and accuracy of culture results

* In comparison to the 2D cell culture, the 3D cell culture is easier to operate in terms of cell function expression, since it simulates the 3D structure of human and animal cells to a maximum level and provides an ideal interactive environment between cells

* The 3D cell culture scaffold has a much larger specific surface area than conventional 2D cell culture products, thus saving on both space and material, and significantly improving cell culture efficiency and yield.

* The surface shows very strong cell adherence through an advanced hydrophilic treatment

* No adsorption of cytokines or growth factors; cell and cell secretions can be directly from the 3D scaffold directly as they are obtained

* Sterilized by irradiation, SAL 10^{-6}

* DNase/RNase free, non-pyrogenic and non-cytotoxic

Cat. No.	Type	JET CellSCAFLD [®] 3D cell culture			Number of Brackets/Box	Bracket Surface Area (cm ²)	Total Surface Area of the Stent(cm ²)	Characteristic	Per. Box/Case
		Size(mm)	Fiber Diameter (μm)	Aperture(μm)					
TDD032035	3.5cm	32.0x1.6	500	260	1	43	43	The 3D scaffold is a four-layered three-dimensional structure with a highly hydrophilic surface and adherent culture. The 3D scaffold is built into the culture plate well or culture dish.	1/40
TDD032060	6.0cm	51.0x1.6	500	260	1	109	109		1/30
TDD032070	7.0cm	67.5x1.6	500	260	1	191	191		1/30
TDP032006	6 Well	33.5x1.6	500	260	3	48	144		1/8
TDP032012	12Well	21.0x1.6	500	260	6	19	114		1/8
TDP032024	24Well	15.0x1.6	500	260	12	10	120		1/8



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