

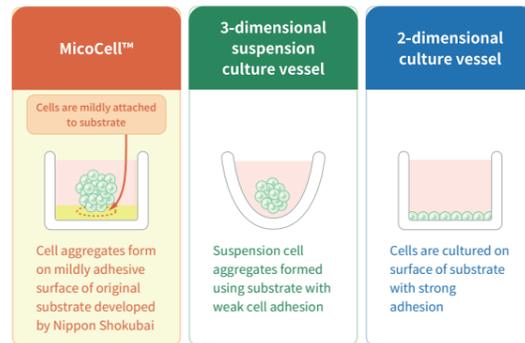


In Development

3D Cell Culture Vessel MicoCell™

☆ Major Features

MicoCell is a cell culture vessel designed to produce large quantities of uniform-sized cell aggregates (spheroids) and to maintain them in a mildly adherent state on the vessel bottom. More than simple physical aggregates, the resulting aggregates are suggested to exhibit enhanced biological functions (e.g., protein production and gene expression) and to have superior functional characteristics compared with 2D-cultured cells and conventional floating aggregates.

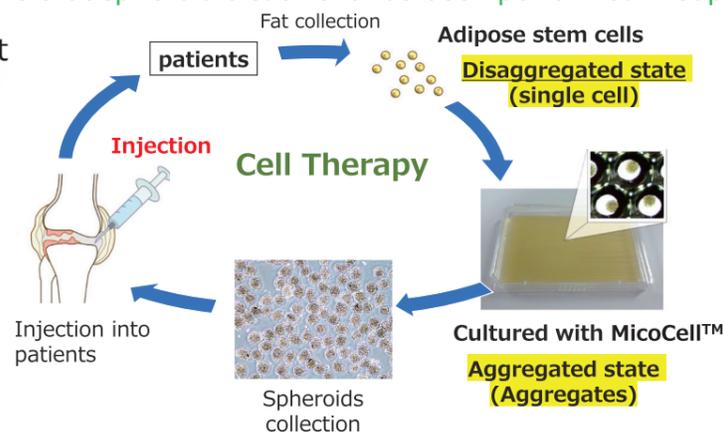


☆ MicoCell's characteristics

item	Feature	Advantage
Vessel	Non-biological origin	Animal-free culture is possible
	Oxygen permeability	Better oxygen permeability compared to conventional PS materials
	Flat bottom, high transparency, no surface treatment	Clear observation with phase contrast and fluorescence microscope
	High density cavity structure	Large number of cell aggregates with uniform size can be produced (hundreds to 40,000 or more)
Cell culture	Formation of cell aggregates that are mildly attached to the bottom of the vessel	Reduce loss of aggregates during medium exchange, enables long-term culturing, and easy to carry
	Collection of cell aggregates without enzymatic processing	Easy operation, low toxicity, retention of cell products such as extracellular matrix
Cell function	Maintains good viability and protein production	Application to drug screening, regenerative medicine, etc

MicoCell is used to treat osteoarthritis in the field of regenerative medicine (cell therapy). There is an example that spheroid treatment has been performed in Japanese clinic.

Image of treatment



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☆ Vessel Form

MicoCell has two types of Vessel (culture surfaces)!

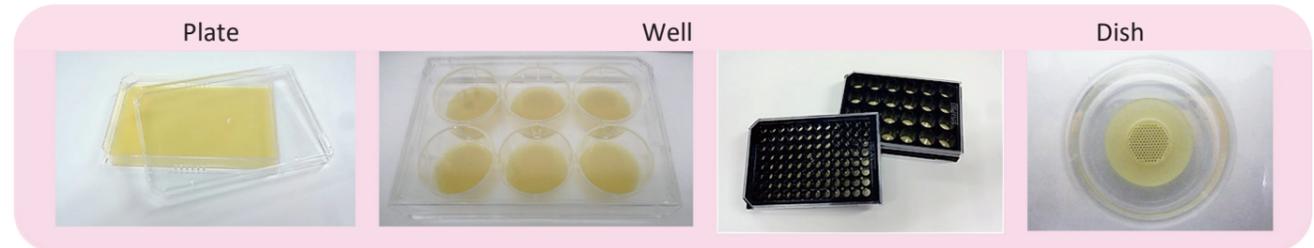
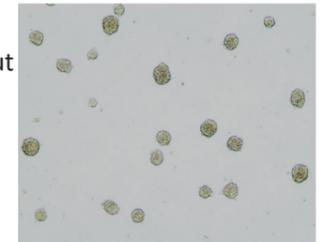
Cavity Plate

Compartmentalized (cavity) culture surface
Precise control of spheroid particle size



Film Plate

Cultivation surface without compartment (cavity)



☆ Product lineup

*Please note that we request an MTA or NDA to provide samples.

Form	Product name	Part number	Number of well	Case color	Number of cavity	Cavity Diameter	Bottom
Cavity (Spheroid particle size can be controlled)	MicoCell 1C-300series	3R-3D	35mmdish (Only the center part can be cultivated)	Clear	400hole/dish	φ0.3mm	Yes
		3R-6D			140hole/dish	φ0.6mm	Yes
		3R-1D			35hole/dish	φ1.2mm	Yes
		3R-1W	1	Clear	42000hole/plate	φ0.3mm	Yes
		3R-6W	6	Clear	3740hole/well 22440hole/plate	φ0.3mm	Yes
		3R-4W	24	Black	800hole/well 19200hole/plate	φ0.3mm	No
		3R-9W	96	Black	120hole/well 11520hole/plate	φ0.3mm	No
		3R-3W	384	Black	26hole/well 9984hole/plate	φ0.3mm	No
Film	RX-10-MC-FLseries	R-6W	6	Clear	-	-	Yes
		R-4W	24	Black	-	-	No
		R-9W	96	Black	-	-	No
		R-3W	384	Black	-	-	No

- The bottomless plate of the housing allows oxygen to pass through from the bottom.
 - Please feel free to contact us if you would like specifications other than those listed above.
 - sterilized
 - This product is for research purposes.
 - Please contact us for prices.
- *We do not guarantee that aggregates will form under all cells and culture conditions.

Caution

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