

NEW: PAMCELL™

3 Dimensional Cell Culture Plates

What is PAMCELL™?

PAMCELL™ is a 3-dimensional cell culture plate which enables the formation of a wide range of uniformly sized spheroids. Plates are composed of hexagonally-arrayed spherical particles coated with cells adhesively controlled functional groups on the surface. These plates allow for the control of cell-to-substrate and cell-to-cell interactions.

- Enables formation of a wide range of uniformly sized spheroids
- Provides various patterns on a single plate without physical barriers
- Optically transparent for *in situ* microscopic observation in automated high throughput screening systems
- Easy to exchange culture medium (spheroids are stably attached on plate surface)

PAMCELL™ Cell Culture Plates are available in two types

■ R Series Plates (96-well/6-well):

R-100
R-600

■ T Series Plates (96-well):

Test Culture Plate 1
Custom-made Plates

Structure of PAMCELL™

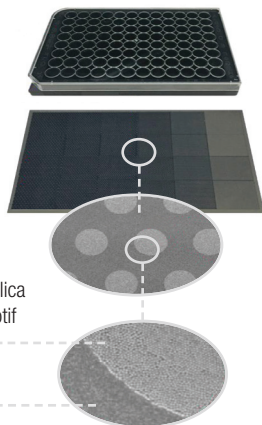
Lid: Polystyrene, Clear

Body: Polystyrene, Clear
(USP Class VI tested)

Substrate: PET Film, Clear
(100µm thick) or COP Film,
Clear (188µm thick —
fluorescence free

Particle: Typically 700nm silica
particle coated with ECM motif
(ex. RGD) peptides

Non-fouling Polymer:
(ex. PEG)



Ordering Information

Cat. No.	Description	Qty.
64830-01	R Series 96-well Plate	each
64830-02	R Series 6-well Plate	each
64830-03	Test Culture Plate 1	each
64830-05	Custom-made Plate	each

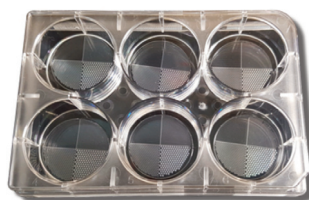
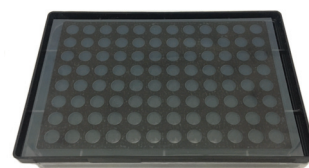
R Series, 96-Well/6-Well Plates

For uniform, large spheroid production on a culture plate with uniform pattern and surface condition. Suitable for HTS Screening (Imaging automation).

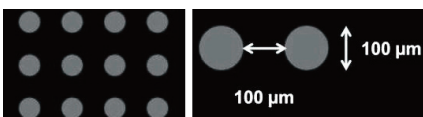
Specifications

	R-100	R-600
Micropad arrangement	Square	Hexagonal
Diameter of micropad (µm)	100	600
Gap between micropads (µm)	100	200
3D Spheroid formation	Cell proliferation	Aggregation
Spheroid production (spheroids/well or unit area)		
96-well	800	60
cm²	2,500	180

1) Width of line: 3 µm w/48 lines

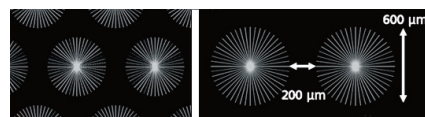


R-100 Plate (Spheroid dia: 80~130µm)



- For small sized cells (ex. tumor cells)
- Anti-cancer drug screening (Ic50), Toxicity test
- Patient tumor cells + stromal cells co-culture

R-600 Plate (Spheroid dia: 150~300µm)



- For primary cells (ex. fibroblast, stem cells)
- Regeneration medicine (cell printing, cell therapy)

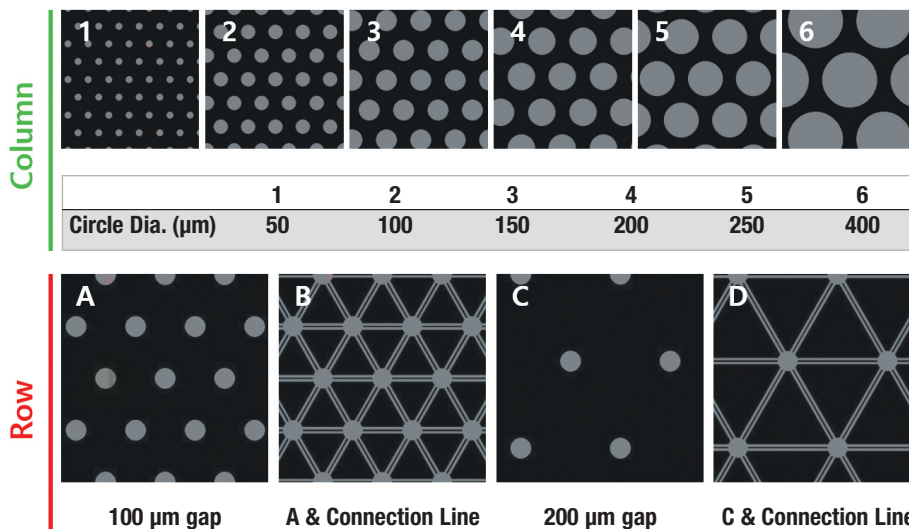
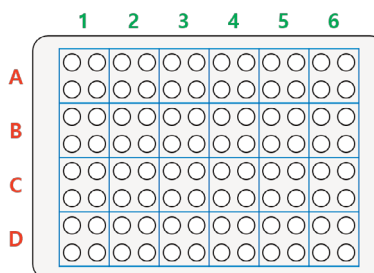
T Series, 96-Well Plates

Test Culture Plate 1

For wide ranges of spheroid size and spheroid networking.

Custom-Made Plates

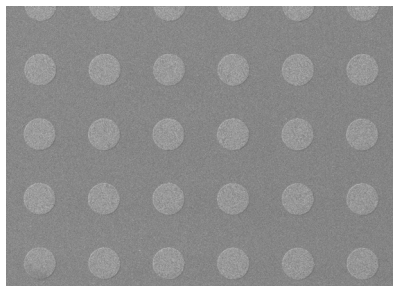
User's requested design plate (select from the Test Culture Plate 1 or new user-designed pattern).



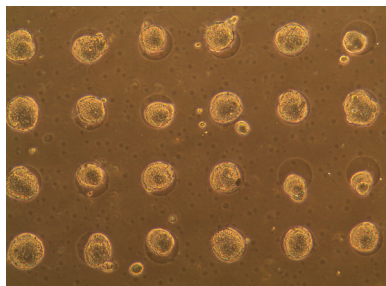
Applications

Spheroids (tumors, stem cells)

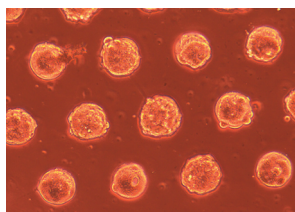
- HTS (Anti-cancer, Toxicity), Disease models
- Tissue spheroid mass production (~800 spheroid/96-well)



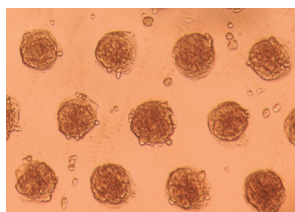
R100



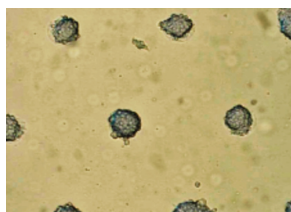
HT-29 (Colon)



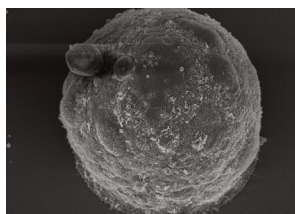
FaDu (Pharynx)



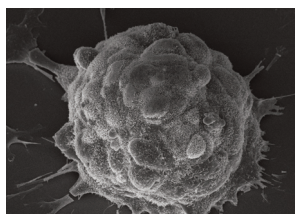
A549 (Lung)



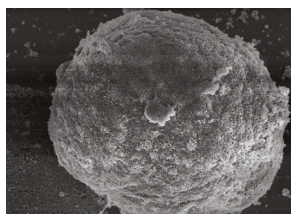
SH-SY5Y (Nerve)



FaDu (Pharynx)

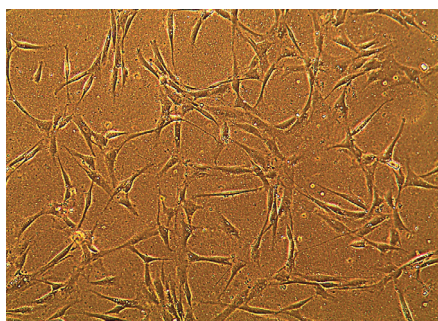


A549 (Lung)

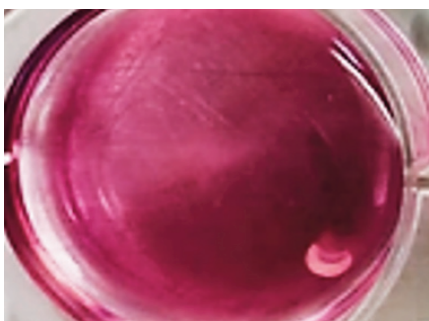


HT-29 (Colon)

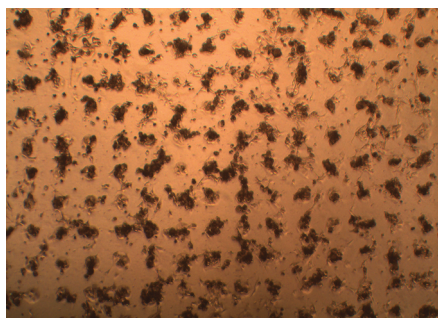
ADSC — Serum-free



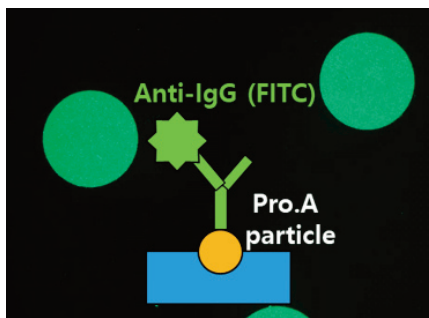
Chondrocyte Pellet



Whitening Test

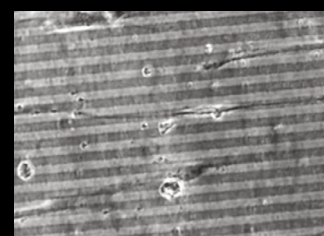
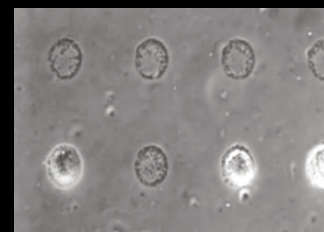


Surface Marker



Single Cell Assay (Response/Differentiation)

Adipose Derived Stem Cells (ADSC)



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