

Cell Culture Insert

Cell and tissue culture technologies have an increasing importance in the fields of basic and applied life science. New culture vessels and new surfaces for cell adsorption are continuously emerging, in order to simulate the internal environment as much as possible for culture of some special cell lines. Logically, using permeable supports with a microporous membrane becomes the basic method for culturing these cells. Permeable supports may effectively improve the culture of polar cells, because these supports allow cells to secrete on and absorb molecules from their basal and apical surfaces to metabolize in a more natural way, as well as to stimulate the in vivo environment to the maximum extent for culturing of some special cell lines.

Features

- Sterilized by E-beam, SAL=10⁻⁶.
- Vacuum Plasma tissue culture treatment.
- Non-Pyrogenic, DNase/Rnase free.
- A rich selection of matching plates: 6-well, 12-well, 24-well.
- Passed the USP VI toxicity test.
- Cell culture plates are made of high clarity, 100% virgin polystyrene.
- Clear lot number for batch traceability.
- Innovative edge design for convenient sample loading.
- Low protein binding to ensure accurate results.
- Compatible with most solvents used for fixing and staining.



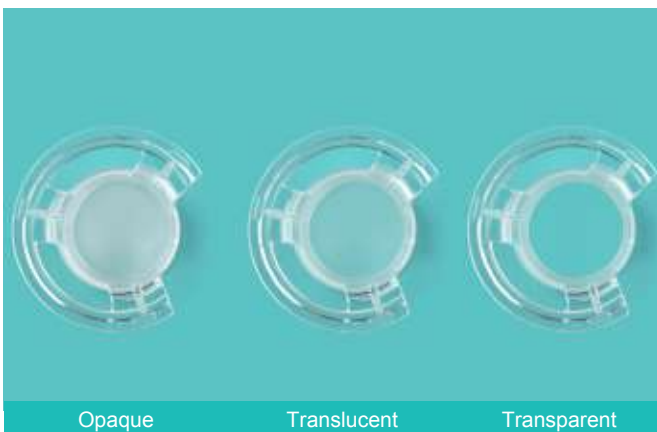
6 Well Plate



12 Well Plate



24 Well Plate



Opaque

Translucent

Transparent



100mm Cell Culture Insert

Application Directions and Types

Applications	Cells	Pore size of Membrane
ADME (transport and permeation of compounds through the enterocyte barrier)	Caco-2, MDCK	0.4 μm
Co-culture and cell differentiation, cell imaging	Primary cells, tumor, stem cells	0.4 μm , 1.0 μm
Cell migration and invasion (angiogenesis)	Endothelial cells	3.0 μm
Cyto-chemotaxis (migration) or endothelial migration	Leukocytes	
Axonal hyperplasia	Neurons	
Tumor cell migration and invasion	Tumor-derived cells	8.0 μm
Hematostaxis or migration through endothelial cells	Leukocytes	
Co-culture	Tumor stem cells	
Transport and secretion of macromolecules or viruses		1.0 μm , 3.0 μm

Product Specification

Specifications	Insert (Pcs/Plate)	Insert Diameter (mm)	Volume of Each Well (mL)	Inner Volume of Insert (mL)	Membrane Growth Area of Insert (cm ²)	
						6 Well Plate
12 Well Plate	12	12	1.5	0.5	1.12	
24 Well Plate	12	6.5	0.6	0.1	0.33	
100mm Dish	1	75	13	9	44	
Pore Size of Membrane (μm)		0.4	1.0	3.0	5.0	8.0
Membrane Density (Well/cm ²)		1x10 ⁸	2x10 ⁷	2x10 ⁶	4x10 ⁵	1x10 ⁵



Cell Culture Insert

Order Information (Insert+Plate Configuration) Note: The inserts are TC-treated. Please refer to the table below to check if the plates are also TC-treated.

Pore Size (μm)	Description	Packaging		PC Membrane			PET Membrane		
		/Pack	/Case	Transparence	TC Treated	Non-Treated	Transparence	TC Treated	Non-Treated
0.4	6 Cell Culture Inserts + 6 Well Plate	6	24	Opaque	723101	723111	Opaque	723121	723131
	12 Cell Culture Inserts + 12 Well Plate	12	48	Opaque	724101	724111	Opaque	724121	724131
	12 Cell Culture Inserts + 24 Well Plate	12	48	Opaque	725101	725111	Opaque	725121	725131
1	6 Cell Culture Inserts + 6 Well Plate	6	24	Opaque	/	/	Opaque	723421	723431
	12 Cell Culture Inserts + 12 Well Plate	12	48	Opaque	/	/	Opaque	724421	724431
	12 Cell Culture Inserts + 24 Well Plate	12	48	Opaque	/	/	Opaque	725421	725431
3	6 Cell Culture Inserts + 6 Well Plate	6	24	Translucent	723001	723011	Translucent	723021	723031
	12 Cell Culture Inserts + 12 Well Plate	12	48	Translucent	724001	724011	Translucent	724021	724031
	12 Cell Culture Inserts + 24 Well Plate	12	48	Translucent	725001	725011	Translucent	725021	725031
	100 mm Cell Culture Insert-Dish	1	10	Translucent	726001	/	Translucent	/	/
5	12 Cell Culture Inserts + 12 Well Plate	12	48	Translucent	724201	724211	Translucent	/	/
	12 Cell Culture Inserts + 24 Well Plate	12	48	Translucent	725201	725211	Translucent	/	/
8	6 Cell Culture Inserts + 6 Well Plate	6	24	Translucent	723301	723311	Transparent	723321	723331
	12 Cell Culture Inserts + 12 Well Plate	12	48	Translucent	724301	724311	Transparent	724321	724331
	12 Cell Culture Inserts + 24 Well Plate	12	48	Translucent	725301	725311	Transparent	725321	725331

Cell Culture Inserts (Individual Blister Package)

Pore Size (μm)	Specification	Description	Packaging	PC Membrane		PET Membrane	
				Transparence	TC Treated	Transparence	TC Treated
0.4	6 well	Cell Culture Inserts	1 pc/blister, 8 pcs/plate, 48 pcs/case	/	/	Opaque	723122
	12 well	Cell Culture Inserts	1 pc/blister, 8 pcs/plate, 48 pcs/case	/	/	Opaque	724122
	24 well	Cell Culture Inserts	1 pc/blister, 8 pcs/plate, 48 pcs/case	/	/	Opaque	725122
8	24 well	Cell Culture Inserts	1 pc/blister, 8 pcs/plate, 48 pcs/case	Translucent	725302	/	/