

The logo for NEST, featuring the word "NEST" in a bold, white, sans-serif font with a registered trademark symbol (®) to its upper right. The logo is set against a teal rectangular background.

# Cell Culture Insert

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# Cell Culture Insert

## Product Description:

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.

## 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 $\mu\text{m}$
Co-culture and cell differentiation, cell imaging	Primary cells, tumor, stem cells	0.4 $\mu\text{m}$ , 1.0 $\mu\text{m}$
Cell migration and invasion (angiogenesis)	Endothelial cells	3.0 $\mu\text{m}$
Cyto-chemotaxis (migration) or endothelial migration	Leukocytes	
Axonal hyperplasia	Neurons	
Tumor cell migration and invasion	Tumor-derived cells	8.0 $\mu\text{m}$
Hematostaxis or migration through endothelial cells	Leukocytes	
Co-culture	Tumor stem cells	
Transport and secretion of macromolecules or viruses		1.0 $\mu\text{m}$ , 3.0 $\mu\text{m}$

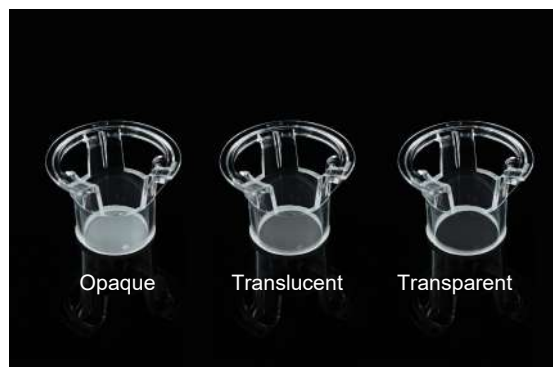
## Features

- Sterilized by E-beam, SAL=10<sup>-6</sup>.
- 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.

## Product Specification

Specifications	Insert Diameter (mm)	Volume of Each Well (mL)	Inner Volume of Insert (mL)	Membrane Growth Area of Insert (cm <sup>2</sup> )
6 Well Plate	24	2.6	1.5	4.67
12 Well Plate	12	1.5	0.5	1.12
24 Well Plate	6.5	0.6	0.1	0.33
100mm Dish	75	13	9	44

Pore Size of Membrane ( $\mu\text{m}$ )	Membrane Density (Well/cm <sup>2</sup> )
0.4	1x10 <sup>8</sup>
1.0	2x10 <sup>7</sup>
3.0	2x10 <sup>6</sup>
5.0	4x10 <sup>5</sup>
8.0	1x10 <sup>5</sup>



# Cell Culture Insert

## Cell Culture Insert, PC Membrane

Individually packaged in peelable Tyvek film and Blister, Sterile.

TC Treated Cat. No.	Non-Treated Cat. No.	Description	Pore Size (µm)	Membrane Transparence	Packing	
					Insert Packing	Plate Packing
723001	723011	6 Cell Culture Inserts + 6 Well Plate	3.0	Translucent	6	60
724001	724011	12 Cell Culture Inserts + 12 Well Plate	3.0	Translucent	12	120
725001	725011	12 Cell Culture Inserts + 24 Well Plate	3.0	Translucent	12	120
723101	723111	6 Cell Culture Inserts + 6 Well Plate	0.4	Opaque	6	60
724101	724111	12 Cell Culture Inserts + 12 Well Plate	0.4	Opaque	12	120
725101	725111	12 Cell Culture Inserts + 24 Well Plate	0.4	Opaque	12	120
724201	724211	12 Cell Culture Inserts + 12 Well Plate	5.0	Translucent	12	120
725201	725211	12 Cell Culture Inserts + 24 Well Plate	5.0	Translucent	12	120
723301	723311	6 Cell Culture Inserts + 6 Well Plate	8.0	Translucent	6	60
724301	724311	12 Cell Culture Inserts + 12 Well Plate	8.0	Translucent	12	120
725301	725311	12 Cell Culture Inserts + 24 Well Plate	8.0	Translucent	12	120
726001	/	100 mm Cell Culture Insert-Dish	3.0	Translucent	1	10

## Cell Culture Insert, PET Membrane

Individually packaged in peelable Tyvek film and Blister, Sterile.

TC Treated Cat. No.	Non-Treated Cat. No.	Description	Pore Size (µm)	Membrane Transparence	Packing	
					Insert Packing	Plate Packing
723121	723131	6 Cell Culture Inserts + 6 Well Plate	0.4	Opaque	6	60
724121	724131	12 Cell Culture Inserts + 12 Well Plate	0.4	Opaque	12	120
725121	725131	12 Cell Culture Inserts + 24 Well Plate	0.4	Opaque	12	120
723021	723031	6 Cell Culture Inserts + 6 Well Plate	3.0	Translucent	6	60
724021	724031	12 Cell Culture Inserts + 12 Well Plate	3.0	Translucent	12	120
725021	725031	12 Cell Culture Inserts + 24 Well Plate	3.0	Translucent	12	120
723421	723431	6 Cell Culture Inserts + 6 Well Plate	1.0	Transparent	6	60
724421	724431	12 Cell Culture Inserts + 12 Well Plate	1.0	Transparent	12	120
725421	725431	12 Cell Culture Inserts + 24 Well Plate	1.0	Transparent	12	120
723321	723331	6 Cell Culture Inserts + 6 Well Plate	8.0	Transparent	6	60
724321	724331	12 Cell Culture Inserts + 12 Well Plate	8.0	Transparent	12	120
725321	725331	12 Cell Culture Inserts + 24 Well Plate	8.0	Transparent	12	120