

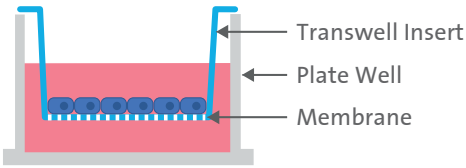
# Transwell® Permeable Supports from Corning

## One Research Tool Used 5 Ways



### 1 Drug screening in complex cell types

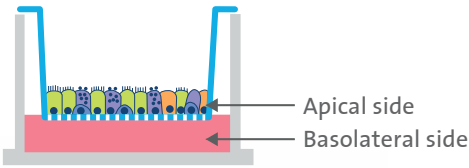
Permeable supports enable the formation of a tight cell layer at the top of the membrane, which allows assessment of transport, diffusion, secretion, permeability, and drug uptake of compounds added to the cells.



**Examples**  
ADME/Tox screening (blood-brain barrier, intestinal epithelium).

### 2 Differentiation of specialized cells

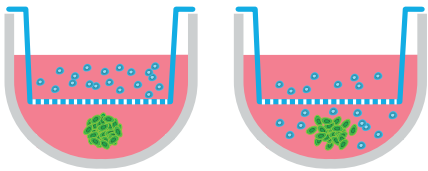
Permeable supports allow cultures at the air-liquid interface: the apical side of the cells is exposed to air, while the basolateral side is immersed in liquid media. This mirrors the cells' natural environment and promotes their full differentiation.



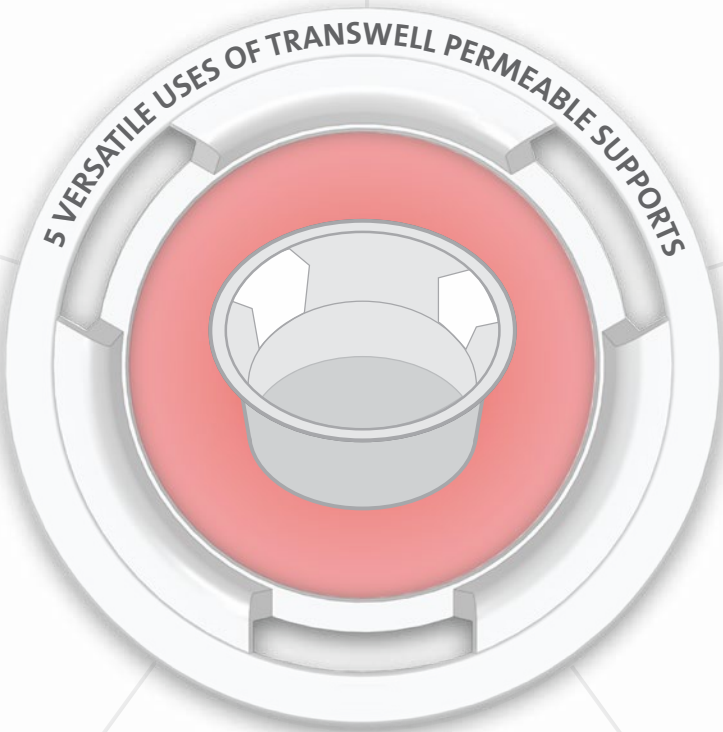
**Examples**  
*In vitro* tissue modeling of epithelial cells (epidermis, airway epithelia, disease models, organoids).

### 5 Chemotaxis and migration assays

Permeable supports enable the analysis of the cells' ability to migrate through the membrane pores towards a chemoattractant (e.g., a tumor spheroid) grown in a Corning spheroid plate.

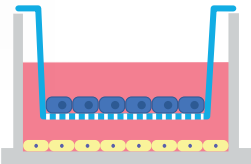


**Examples**  
Immune response, cancer metastasis.



### 3 2D, 3D, and complex co-culture studies

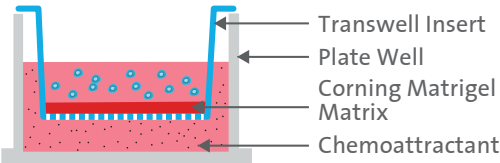
Permeable supports enable 2D, 3D, and co-culture of different cell types, allowing the exchange of secreted factors through membrane pores, without cell-to-cell contact.



**Examples**  
2D, 3D cell culture, intracellular communication, or cell metabolism that influences other cell types (gene expression, secretion).

### 4 Invasion assays

Permeable supports pre-coated with extracellular matrices serves as a barrier for non-invasive cells, while presenting an appropriate environment to study cell invasion.



**Examples**  
Invasion capacity of normal/malignant or compound treated/non-treated cells towards a chemoattractant.

## Options for Customizing Your Individual Needs

Membrane Material	Pore Size	Growth Area	Pre-coated
<b>PC or PET</b> PC: High pore density PET: Clear, transparent, translucent; Corning FluoroBlok™ light blocking	0.4, 1.0, 3.0, 5.0, or 8.0 μm	<ul style="list-style-type: none"><li>• 100 mm dish</li><li>• 6-, 12-, 24-, or 96-well plates</li><li>• Large format (100 cm<sup>2</sup> growth area)</li></ul>	Lot-to-lot consistency, reproducible results for 2D and 3D cell cultures <ul style="list-style-type: none"><li>• Collagen</li><li>• Fibronectin</li><li>• Corning Matrigel® matrix</li></ul>
	Format		
	<ul style="list-style-type: none"><li>• Individual inserts</li><li>• HTS Transwell inserts</li></ul>		

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