

# Permeable Supports Product Selection Guide

Including Transwell® and Falcon® Cell Culture Inserts

CORNING



# About Corning® Permeable Supports

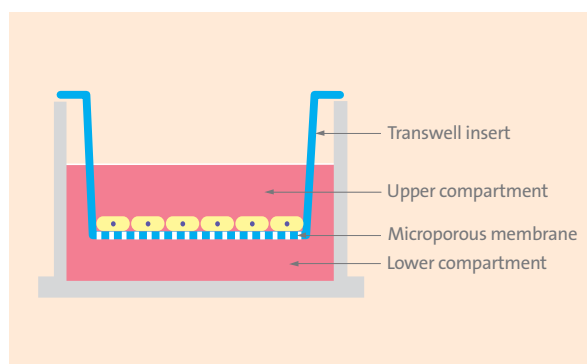
**Permeable supports, also known as cell culture inserts, are an essential tool for the study of both anchorage-dependent and independent cell lines.**

You can use cell culture inserts to:

- ▶ Produce a cell culture environment that closely resembles an *in vivo* state
- ▶ Allow polarized cells to carry out metabolic activities in a more natural manner because the cells feed both apically and basolaterally
- ▶ Co-culture cells with or without cell-to-cell contact
- ▶ Design a diversity of experiments using various pore sizes, membrane types, and coatings

This selection guide will help you choose the right combination of membrane type, pore size, format, and surface treatment to create a cell culture environment that more closely mimics the *in vivo* environment you desire.

## Create a More Natural Environment for Your Cells



The unique, self-centered hanging design of Transwell inserts prevents medium wicking between the insert and outer well. The design also permits access to the lower compartment through windows in the insert wall, as well as undamaged co-culturing of cells in the lower compartment.



## Transwell® Permeable Supports: a Laboratory Standard

Transwell inserts are convenient, ready-to-use permeable support devices pre-packaged in standard multiple well plates. The unique, self-centered hanging design prevents medium wicking between the insert and outer well. Transwell inserts are available in a wide variety of sizes, membrane types, and configurations, and they are backed by extensive citations, protocols, and technical support—all of which has helped to make them the leading brand of cell culture insert for more than 25 years.



## Falcon® and Corning® BioCoat™ Inserts: Giving You More Choices

With Falcon and BioCoat inserts, Corning offers an even broader line of permeable support research tools, including Corning FluoroBlok™ light-blocking inserts and systems for migration assays, as well as BioCoat ECM-coated inserts for enhanced cell attachment, growth, and differentiation.

Falcon inserts are offered in polyester (PET) membranes and come individually packaged in a variety of pore sizes and configurations. For best results, Falcon, BioCoat, and FluoroBlok inserts should be used only with Falcon cell culture companion plates. These plates allow for a two-position orientation of the inserts for feeding and incubation of cells.

# How to Use this Guide

*Follow these four steps to select the optimal insert for your research.*

## 1. Select a Membrane

Permeable supports are available with three materials of construction:

### PC (Polycarbonate)

Transwell® permeable supports are available in a broad range of pore sizes from 0.4 to 8.0 µm. This high pore density membrane is suitable for a variety of applications. It allows for maximum diffusion when studying transport, secretions, or drug uptake.

### PET (Polyester or Polyethylene Terephthalate)

Several PET membrane types are available:

- ▶ Transwell-clear and Falcon® transparent PET inserts permit sufficient optical transparency for visualization of cell outlines by phase contrast microscopy.
- ▶ Falcon high density (HD) PET membranes have a high pore density, which allows maximum diffusion of materials between the insert and receiver plate.
- ▶ Corning FluoroBlok™ light-blocking PET membrane is also available for simplified cell-based assays. This unique membrane blocks >99% of light transmission from 400 to 700 nm and is ideal for both endpoint and kinetic cell invasion, migration, and chemotaxis assays.

### PTFE (Polytetrafluoroethylene)

Collagen-coated PTFE membranes are available in limited pore sizes (0.4 and 3.0 µm). These coated membranes promote cell attachment and allow cells to be visualized during culture.

Consult the product specification tables on the following pages for more information.

## 2. Select a Pore Size

In general, smaller pore sizes (0.4 and 1.0 µm) are used for culturing cells, co-culture applications, and drug transport studies. Larger pore sizes (3.0 to 8.0 µm) are recommended for chemotaxis and angiogenesis applications. Please refer to the Applications guide below for more information.

Application	Cell Type	Pore Size (µm)
Angiogenesis	Endothelial, HMVEC, HUVEC	3.0
Co-culture	Stem, neuronal, and various others	0.4, 1.0
Epithelial Cell Polarity	Epithelial cells	0.4
Migration	Endothelial, HUVEC, HMVEC	3.0
	Neutrophils, PMNs	3.0
	Lymphocytes, macrophages, monocytes	3.0, 5.0
	Neuronal cells	3.0
	Dendritic cells	3.0, 5.0, 8.0
	Neurite outgrowth	1.0, 3.0
	Epithelial fibroblasts	8.0
	Leukocytes	3.0, 5.0
Invasion	Smooth muscle	8.0
	Melanoma	8.0
	Glioma	8.0
	Lymphoma, Jurkat	5.0, 8.0
	Osteoblasts	8.0
	Breast cancer	5.0, 8.0
Tissue Engineering	Endothelial	3.0, 5.0, 8.0
	Human skin model	0.4, 3.0
Toxicity Testing	Mouse fibroblasts	3.0
	Human lung	0.4
Transport and Permeability Studies	Caco-2	0.4, 1.0
	MDCK	0.4, 1.0

## How to Use this Guide (Continued)

### 3. Select a Format

- ▶ Individual inserts are used with 6-, 12-, and 24-well plates. A large, single-well format is also available in a 100 mm dish.
- ▶ HTS insert plates are available in either 24- or 96-well formats with special receiver plates and single-well reservoirs to facilitate automation and ease of handling.
- ▶ Snapwell™ inserts are designed for use with diffusion or Ussing chambers.
- ▶ Netwell® inserts are used as tissue carriers or explants at the air-media interface. The inserts are available in 6- or 12-well plates.

#### Growth Area Guide for Transwell® Inserts

Insert Diameter (mm)*	Multiple Well Plate or Dish Style	Insert Membrane Growth Area (cm <sup>2</sup> )
4.26	96-well	0.143
6.5	24-well	0.33
12	12-well	1.12
24	6-well	4.67
75	100 mm dish	44

#### Growth Area Guide for Falcon®, Corning® FluoroBlok™, and Corning BioCoat™ Inserts

Insert Diameter (mm)*	Multiple Well Plate or Dish Style	Insert Membrane Growth Area (cm <sup>2</sup> )
3.2	96-well	0.08
6.4	24-well	0.31/0.33**
10.5	12-well	0.90
23.1	6-well	4.2

\*Values are reported as nominal and may vary due to inherent variability of our manufacturing process. To ensure success, we recommend that researchers validate their methods independent from our reported values.

\*\*24 HTS Multiwell

### 4. Select a Surface Treatment

For many applications, an extracellular matrix (ECM) coating can improve cell attachment, differentiation, and signaling. Compared to self-coated inserts, pre-coated Corning BioCoat inserts reduce handling steps and can enhance data reproducibility. Consult the BioCoat insert selection guide for more information. Custom coatings and configurations are also available. If you don't see what you need, please contact Corning for more information. You'll find contact information on the back cover of this brochure.

## Individual Inserts



24 and 6.5 mm Transwell inserts

### Corning offers four types of individual inserts:

- ▶ Transwell® Polycarbonate (PC) translucent inserts are treated for optimal cell attachment. They are available in a variety of pore sizes ranging from 0.4 to 8.0  $\mu\text{m}$ .
- ▶ Transwell-clear inserts feature a microscopically transparent polyester (PET) membrane that is tissue culture (TC)-treated for optimal cell attachment and growth. Transwell-Clear inserts provide better cell visibility under phase contrast microscopy and allow assessment of cell viability and monolayer formation.
- ▶ Individual Falcon® inserts are available with standard transparent PET, as well as high pore-density translucent PET for maximum diffusion when studying transport, secretion, and drug uptake.
- ▶ Light-blocking PET (see Corning® FluoroBlok™ inserts on the next page for more information).

### Characteristics of Transwell Inserts

Pore Size ( $\mu\text{m}$ )	0.4	0.4	3.0	3.0	5.0	8.0	8.0
Membrane	PET	PC	PET	PC	PC	PC	PET
Pore Density	$4 \times 10^6$	$1 \times 10^8$	$2 \times 10^6$	$2 \times 10^6$	$4 \times 10^5$	$1 \times 10^5$	$1 \times 10^5$
Opacity	Clear	Translucent	Clear	Translucent	Translucent	Translucent	Clear
1-well		■		■			
6-well	■	■	■	■			
12-well	■	■	■	■			
24-well	■	■	■	■	■	■	■
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### Characteristics of Falcon and Corning BioCoat Inserts

Pore Size ( $\mu\text{m}$ )	0.4	0.4	1.0	3.0	3.0	8.0
Membrane	PET	PET	PET	PET	PET	PET
Pore Density	$2 \times 10^6$	$1 \times 10^8$	$2 \times 10^6$	$6 \times 10^5$	$2 \times 10^6$	$6 \times 10^4$
Opacity	Clear	Translucent	Clear	Clear	Translucent	Clear
1-well						
6-well	■	■	■	■	■	■
12-well	■	■	■	■	■	■
24-well	■	■	■	■	■	■
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For best results, Falcon cell culture and Corning BioCoat inserts should be used together with Falcon cell culture companion plates. Falcon cell culture insert companion plates have been specially designed to reduce the risk of evaporation or contamination due to improper fit. (See ordering information).

## Individual Inserts (Continued)



Corning FluoroBlok 6.5 mm insert

### Corning® FluoroBlok™ Inserts

Corning FluoroBlok cell culture inserts are designed with a light-tight PET membrane that efficiently blocks the transmission of light from 400 to 700 nm, allowing fluorescence detection in a simplified and non-destructive manner.

Fluorescently labeled cells in the top chamber of the insert are shielded from bottom-reading fluorescence plate readers and microscopes by the FluoroBlok membrane. Labeled cells that migrate through the membrane are easily detected by a bottom-reading fluorescence plate reader, thereby eliminating cell scraping and manual cell counting. This non-destructive detection method enables both kinetic and endpoint chemotactic assays. (Note: Falcon® inserts do not come with companion receiver plates. See the ordering information for companion plate catalog numbers.)

#### Characteristics of Corning FluoroBlok Inserts

Pore Size (µm)	3.0	8.0
Membrane	Light-blocking PET	Light-blocking PET
Pore Density	$6 \times 10^5$	$6 \times 10^4$
Brand	FluoroBlok	FluoroBlok
Inserts for 24-well Plates	■	■
Ordering Information	Page 10	Page 10

### Snapwell™ Inserts

The Snapwell insert is a modified Transwell® culture insert that contains a 12 mm diameter tissue culture-treated membrane supported by a detachable ring. The inserts are primarily used for transport and electrophysiological studies. Once cells are grown to confluence, this ring-supported membrane can be placed into either vertical or horizontal diffusion or Ussing chambers.

#### Characteristics of Snapwell Insert Membranes

Pore Size (µm)	0.4	0.4
Membrane	PET	PC
Pore Density	$4 \times 10^6$	$1 \times 10^8$
Opacity	Clear	Translucent
Brand	Costar®	Costar
Inserts for 6-well Plates	■	■
Ordering Information	Page 10	Page 10



Polycarbonate Snapwell inserts



Polyester Snapwell inserts

### Netwell® Inserts

Netwell inserts have polyester (PET) mesh bottoms attached to a polystyrene ring or housing. They are used as tissue carriers, supports and strainers for culture of small organs, tissue slices, or explants at the air-media interface. They can be used to coarse filter tissue homogenates, cell suspensions, or microcarriers. Accessories allow them to be used as a handy carrier for immunocytochemical staining of tissue culture slices. See the ordering information for Netwell accessories.

#### Characteristics of Netwell Inserts

Mesh Size (µm)	74	440
Mesh Material	PET	PET
Sterile	Yes	Yes
Brand	Costar	Costar
Inserts for 6-, 12-, and 24-well Plates	■	■
Ordering Information	Page 10	Page 10



Polyester Netwell inserts

### ECM Coated Inserts

Corning® BioCoat™ cell culture inserts are pre-coated with extracellular matrix proteins for applications requiring a protein-coated cell surface, such as cell differentiation, migration and invasion assays. Coatings include Corning Matrigel® matrix, Fibronectin, or Collagen.

For example, cell culture inserts coated with Fibrillar Collagen I can establish the barrier function of intestinal epithelial cell monolayers (Caco-2). Inserts coated with Matrigel matrix are frequently cited for *in vitro* cell invasion assays.

#### Characteristics of Corning Coated Inserts

Corning BioCoat Inserts			
Pore Size (µm)	0.4	1.0	8.0
Membrane	PET	PET	PET
Coating:			
Collagen I	■		
Fibrillar Collagen		■	
Fibronectin			
Matrigel Matrix			■
Matrigel GFR			■
Ordering Information	Page 10	Page 10	Page 10

Corning BioCoat Control Inserts		
Pore Size (µm)	0.4	8.0
Membrane	PET	PET
Pore Density	2 x 10 <sup>6</sup>	6 x 10 <sup>4</sup>
Opacity	Clear	Clear
24-well	■	■
Ordering Information	Page 10	Page 10

BioCoat control cell culture inserts are packaged ready-to-use in Falcon® cell culture insert companion plates. They may be used as control inserts along side ECM-treated inserts while studying effects of the ECM component present on the Corning BioCoat cell culture inserts.

Transwell® Coated Inserts		
Pore Size (µm)	0.4	3.0
Membrane	PTFE	PTFE
Coating:		
Collagen I and III Mix	■	■
6-well	■	■
12-well	■	■
24-well	■	■
Ordering Information	Pages 11	Pages 11

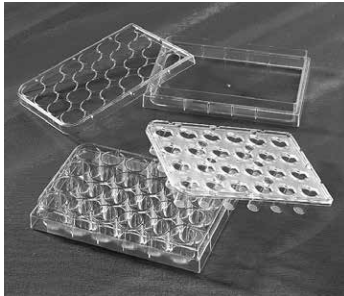
Transwell-COL inserts have a transparent (when wet) collagen-treated PTFE membrane that promotes cell attachment and spreading, while allowing cells to be visualized during culture. The coating process covers each fibril of the matrix, thereby retaining the porosity of the membrane.

# HTS Insert Plates

HTS insert plates are arrays of individual cell culture inserts connected by a rigid, robotics-friendly holder. This single-unit design makes insert plates ideal for running automated, high throughput drug transport (Caco-2 cells) cell toxicity studies or cell migration and invasion studies.

## Characteristics of Uncoated HTS Insert Plates

Uncoated Transwell® HTS Insert Plates						
Pore Size (µm)	0.4	0.4	1.0	3.0	5.0	8.0
Membrane	PET	PC	PET	PC	PC	PET
Pore Density	4 x 10 <sup>6</sup>	1 x 10 <sup>8</sup>	1.6 x 10 <sup>6</sup>	2 x 10 <sup>6</sup>	4 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>
Opacity	Clear	Translucent	Clear	Translucent	Translucent	Clear
24-well	■	■	■	■		
96-well		■	■	■	■	■
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HTS Transwell insert plates

Uncoated Falcon® HTS Insert Plates					
Pore Size (µm)	1.0	3.0	3.0	8.0	8.0
Membrane	PET	PET	FluoroBlok™	PET	FluoroBlok
Pore Density	1.8 x 10 <sup>6</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>4</sup>	6 x 10 <sup>4</sup>
Opacity	Clear	Clear	Light-blocking	Clear	Light-blocking
24-well	■	■	■	■	■
96-well	■		■	■	■
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Falcon HTS insert plates

## Characteristics of Coated HTS Insert Plates

Coated HTS Insert Plates						
Pore Size (µm)	0.4	1.0	3.0	3.0	3.0	8.0
Membrane	PAMPA	PET	PET	FluoroBlok	FluoroBlok	FluoroBlok
Coatings						
Fibrillar Collagen I		■				
Fibronectin			■	■		
Corning® Matrigel® Matrix					■	■
Phospholipids	■					
Pore Density	–	1.8 x 10 <sup>6</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>4</sup>
Brand	Gentest™	BioCoat™	BioCoat	BioCoat	BioCoat	BioCoat
System				Angiogenesis cell migration system <sup>a</sup>	Angiogenesis cell invasion system <sup>b</sup>	Tumor cell invasion system <sup>c</sup>
24-well		■	■	■	■	■
96-well	■			■		■
Ordering Information	Page 12	Page 12	Page 12	Page 12	Page 12	Page 12

<sup>a</sup> Angiogenesis cell migration system: Use to evaluate endothelial cell invasion using real-time fluorescence detection in a simplified and reproducible manner. Increase screening throughput for prospective pro- and anti-angiogenic compounds. Tested for its ability to allow invasion of HUVEC cells in response to VEGF. This system consists of a receiver plate, a lid, and a Falcon multiwell insert plate with 3.0 µm Corning FluoroBlok membrane coated with human Fibronectin.

<sup>b</sup> Angiogenesis cell invasion system: A quantitative and reproducible *in vitro* model system for examining the effects of prospective compounds on endothelial cell migration. Tested for its ability to allow invasion of HMVEC-1 cells and to exclude invasion of NIH-3T3 cells. This system consists of a receiver plate, a lid, and a Falcon multiwell insert plate with 3.0 µm FluoroBlok membrane coated with Matrigel matrix.

<sup>c</sup> Tumor cell invasion system: An *in vitro* system for the study of cell invasion through a basement membrane. The system consists of Falcon inserts containing an 8 µm pore size PET membrane coated with a uniform layer of Matrigel matrix.



# Ordering Information

## Uncoated Individual Inserts

### Transwell® Permeable Supports, Polycarbonate (PC) Membrane

Cat. No.	Description	Membrane Diameter (mm)	Growth Surface Area (cm <sup>2</sup> )	Membrane Pore Size (µm)	Qty/Pk	Qty/Cs
3412	Inserts in 6-well plates	24	4.67	0.4	6/plate	24
3414	Inserts in 6-well plates	24	4.67	3.0	6/plate	24
3428	Inserts in 6-well plates	24	4.67	8.0	6/plate	24
3401	Inserts in 12-well plates	12	1.12	0.4	12/plate	48
3402	Inserts in 12-well plates	12	1.12	3.0	12/plate	48
3413	Inserts in 24-well plates	6.5	0.33	0.4	12/plate*	48
3415	Inserts in 24-well plates	6.5	0.33	3.0	12/plate*	48
3421	Inserts in 24-well plates	6.5	0.33	5.0	12/plate*	48
3422	Inserts in 24-well plates	6.5	0.33	8.0	12/plate*	48
7910	Inserts in 100 mm dish	75	44	0.4	1/dish	12
3420	Inserts in 100 mm dish	75	44	3.0	1/dish	12

\*6.5 mm membrane diameter are packaged 12 inserts in a 24-well plate, 4 plates per case.

### Transwell-Clear Inserts, Polyester (PET) membrane

3450	Inserts in 6-well plates	24	4.67	0.4	6/plate	24
3452	Inserts in 6-well plates	24	4.67	3.0	6/plate	24
3460	Inserts in 12-well plates	12	1.12	0.4	12/plate	48
3462	Inserts in 12-well plates	12	1.12	3.0	12/plate	48
3470	Inserts in 24-well plates	6.5	0.33	0.4	12/plate*	48
3472	Inserts in 24-well plates	6.5	0.33	3.0	12/plate*	48
3464	Inserts in 24-well plates	6.5	0.33	8.0	12/plate*	48

\*6.5 mm membrane diameter are packaged 12 inserts in a 24-well plate, 4 plates per case.

### Costar® Multiple Well Plates

3516	6-well clear TC-treated multiple well plates	–	–	–	1	50
3513	12-well clear TC-treated multiple well plates	–	–	–	1	50
3526	24-well clear TC-treated multiple well plates	–	–	–	1	50

### Falcon® Transparent Inserts, PET Membrane

353090	Inserts for 6-well plates	23.1	4.2	0.4	1	48
353102	Inserts for 6-well plates	23.1	4.2	1.0	1	48
353091	Inserts for 6-well plates	23.1	4.2	3.0	1	48
353093	Inserts for 6-well plates	23.1	4.2	8.0	1	48
353103	Inserts for 12-well plates	10.5	0.9	1.0	1	48
353180	Inserts for 12-well plates	10.5	0.9	0.4	1	48
353181	Inserts for 12-well plates	10.5	0.9	3.0	1	48
353182	Inserts for 12-well plates	10.5	0.9	8.0	1	48
353095	Inserts for 24-well plates	6.4	0.3	0.4	1	48
353104	Inserts for 24-well plates	6.4	0.3	1.0	1	48
353096	Inserts for 24-well plates	6.4	0.3	3.0	1	48
353097	Inserts for 24-well plates	6.4	0.3	8.0	1	48

### Falcon Translucent, High Density Inserts, PET Membrane

353493	Inserts for 6-well plates	23.1	4.2	0.4	1	48
353092	Inserts for 6-well plates	23.1	4.2	3.0	1	48
353292	Inserts for 12-well plates	10.5	0.9	3.0	1	48
353495	Inserts for 24-well plates	6.4	0.3	0.4	1	48

## Ordering Information (Continued)

### Falcon® Cell Culture Insert Companion Plates and Lid

Cat. No.	Description	Membrane Diameter (mm)	Growth Surface Area (cm <sup>2</sup> )	Membrane Pore Size (µm)	Qty/Pk	Qty/Cs
353502	6-well plate, clear, flat bottom, standard TC-treated	–	–	–	1	50
355467	6-well, deep well plate, clear, flat bottom, standard TC-treated	–	–	–	1	4
353503	12-well plate, clear, flat bottom, standard TC-treated	–	–	–	1	50
353504	24-well plate, clear, flat bottom, standard TC-treated	–	–	–	1	50

### Snapwell™ Inserts\*

3407	PC inserts in 6-well plates	12	1.12	0.4	6	24
3801	Clear PET inserts in 6-well plates	12	1.12	0.4	6	24

\*Diffusion chambers are available through Harvard Apparatus ([www.harvardapparatus.com](http://www.harvardapparatus.com)).

### Netwell® Inserts, PET Membrane

Cat. No.	Description	Membrane Diameter (mm)	Membrane Pore Size (µm)	Color	Qty/Pk	Qty/Cs
3479	Inserts in 6-well plates	24	74	–	6/plate	48
3480	Inserts in 6-well plates	24	440	–	6/plate	48
3477	Inserts in 12-well plates	15	74	–	12/plate	48
3478	Inserts in 12-well plates	15	440	–	12/plate	48

### Netwell Accessories

3517	Netwell reagent Tray	–	–	Black	25	200
3519	Netwell reagent Tray	–	–	White	25	200
3520	Netwell 12-well carrier kit for 15 mm inserts	–	–	Clear	8	8
3521	Netwell 6-well carrier kit, for 24 mm inserts	–	–	Clear	8	8

### Corning® FluoroBlok™ Cell Culture Inserts for 24-well Plates

Cat. No.	Description	Membrane Diameter (mm)	Growth Surface Area (cm <sup>2</sup> )	Membrane Pore Size (µm)	Qty/Pk	Qty/Cs
351151	Inserts for 24-well plates, PET	6.4	0.3	3.0	1	48
351152	Inserts for 24-well plates, PET	6.4	0.3	8.0	1	48
353504	24-well cell culture insert companion plate	-	-	-	1	50

## Coated Individual Inserts

### Corning BioCoat™ Collagen I Cell Culture Inserts, PET Membrane

354444	Inserts in two 24-well plates	6.4	0.3	0.4	12	24
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### Corning BioCoat Fibrillar Collagen Cell Culture Inserts, PET Membrane

354474	Inserts in two 24-well plates	6.4	0.3	1.0	12	24
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### Corning BioCoat FluoroBlok Fibronectin Cell Culture Inserts, PET Membrane

354597	Individual inserts in two 24-well plates	6.4	0.3	3.0	12	24
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### Corning BioCoat Cell Environments and Corning BioCoat Matrigel® Invasion Chambers, PET Membrane

354481	Matrigel invasion chambers in four 6-well plates	23.1	4.2	8.0	6	24
354480	Matrigel invasion chambers in two 24-well plates	6.4	0.3	8.0	12	24
354483	Growth factor reduced Matrigel invasion chambers in two 24-well plates	6.4	0.3	8.0	12	24

### Corning BioCoat™ Intestinal Epithelium Differentiation Environment

355057	Intestinal epithelium differentiation environment, kit Includes: a specially formulated serum-free medium, culture supplements, sodium butyrate, and Corning BioCoat Fibrillar Collagen cell culture inserts.	6.4	0.3	1.0	1 Kit	24
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### Corning BioCoat Control Cell Culture Inserts, PET Membrane

354572	Inserts in two 24-well plates	6.4	0.3	0.4	12	24
354578	Inserts in two 24-well plates	6.4	0.3	8.0	12	24

## Transwell®-COL Collagen-coated Inserts, PTFE Membrane\*

Cat. No.	Description	Membrane Diameter (mm)	Growth Surface Area (cm <sup>2</sup> )	Membrane Pore Size (µm)	Qty/Pk	Qty/Cs
3491	Inserts and 6-well plates	24	4.67	0.4	1	24
3492	Inserts and 6-well plates	24	4.67	3.0	1	24
3493	Inserts and 12-well plates	12	1.12	0.4	1	24
3494	Inserts and 12-well plates	12	1.12	3.0	1	24
3495**	Inserts and 24-well plates	6.5	0.33	0.4	1	24

\*Includes inserts packaged separately with multiwell plates.

\*\*6.5 mm diameter inserts packaged separately with two 24-well plates.

## HTS Insert Plates

### HTS Transwell-24 Well Permeable Supports

3396	HTS Transwell-24, individual, polycarbonate (PC)	6.5	0.33	0.4	1	2
3397	HTS Transwell-24, bulk, PC	6.5	0.33	0.4	12	12
3398	HTS Transwell-24, individual, PC	6.5	0.33	3.0	1	2
3399	HTS Transwell-24, bulk, PC	6.5	0.33	3.0	12	12
3378	HTS Transwell-24, bulk, PET	6.5	0.33	0.4	12	12
3379	HTS Transwell-24, individual, PET	6.5	0.33	0.4	1	2
3395	HTS Transwell nontreated reservoir	–	–	–	12	48
4395	HTS Transwell-24, TC-treated reservoir with lid	–	–	–	12	48

### HTS Transwell-96 Well Permeable Supports

3381	HTS Transwell-96 system, reservoir and receiver plates with 2 lids, PC	4.21	0.143	0.4	1	1
3391	HTS Transwell-96 system, reservoir and receiver plates with 2 lids, PC	4.21	0.143	0.4	5	5
7369	HTS Transwell-96 System reservoir and receiver plates with 2 lids, PET	4.21	0.143	0.4	5	5
3380	HTS Transwell-96 system, reservoir and receiver plates with 2 lids, PET	4.21	0.143	1.0	1	1
3392	HTS Transwell-96 system, reservoir and receiver plates with 2 lids, PET	4.21	0.143	1.0	5	5
3385	HTS Transwell-96 well plate, receiver plate and lid, individual, PC	4.21	0.143	3.0	1	2
3386	HTS Transwell-96 well plate, receiver plate and lid, bulk, PC	4.21	0.143	3.0	4	8
3387	HTS Transwell-96 well plate, receiver plate and lid, bulk, PC	4.21	0.143	5.0	4	8
3388	HTS Transwell-96 well plate, receiver plate and lid, individual, PC	4.21	0.143	5.0	1	2
3374	HTS Transwell-96 well plate, receiver plate and lid, individual, PET	4.21	0.143	8.0	1	2
3384	HTS Transwell-96 well plate, receiver plate and lid, bulk, PET	4.21	0.143	8.0	4	8
3382	HTS Transwell-96 receiver plate with lid, standard TC-treated	–	–	–	10	10
3383	HTS Transwell-96 reservoir plate media stabilizer and lid	–	–	–	10	10
3583	HTS Transwell-96 black receiver plate with lid, standard TC-treated	–	–	–	10	10
3783	HTS Transwell-96 white receiver plate, and lid, standard TC-treated	–	–	–	10	10
7494	HTS Transwell-96 reservoir plate with media stabilizer and lid, Corning CellBIND® surface treated	–	–	–	10	10

### Falcon® 24-well Insert Systems, PET Membrane

351181	Insert plate with feeder tray and lid	6.4	0.3	1.0	5	5
351183	Insert plate with 24-well plate and lid	6.4	0.3	3.0	5	5
351185	Insert plate with 24-well plate and lid	6.4	0.3	8.0	5	5

### Falcon Plates

353047	24-well plate, standard TC-treated	–	–	–	1	50
353226	24-well plate, standard TC-treated	–	–	–	6	36
353935	24-well plate, standard TC-treated	–	–	–	10/RS Tray*	60
353847	24-well plate, Corning Primaria™ surface	–	–	–	1	50
351147	24-well plate, not treated surface	–	–	–	1	50
351186	Feeder tray with lid	–	–	–	5	5

\*Ready-Stack Tray

## Ordering Information (Continued)

### Falcon® 96-well Insert System, PET Membrane

Cat. No.	Description	Membrane Diameter (mm)	Growth Surface Area (cm <sup>2</sup> )	Membrane Pore Size (µm)	Qty/Pk	Qty/Cs
351131	Insert plate with feeder tray and lid	3.2	0.08	1.0	5	5
353938	Insert plates with 96 square well, angled-bottom plates and lids	3.2	0.08	1.0	5	5
353925	96 square well, angled-bottom plates and lids	–	–	–	5	5
353924	96 well feeder tray and lid	–	–	–	5	5

### Corning® FluoroBlok™ 24 Multiwell Insert Systems, PET Membrane

351156	Insert plate with 24-well plate and lid	6.4	0.3	3.0	5	5
351157	Insert plate with 24-well plate and lid	6.4	0.3	8.0	1	1
351158	Insert plate with 24-well plate and lid	6.4	0.3	8.0	5	5

### Corning FluoroBlok 96-well Multiwell Insert Systems, PET Membrane

351161	Insert plate with 96 square well and lid	3.2	0.08	3.0	1	1
351162	Insert plate with 96 square well and lid	3.2	0.08	3.0	5	5
351163	Insert plate with 96 square well and lid	3.2	0.08	8.0	1	1
351164	Insert plate with 96 square well and lid	3.2	0.08	8.0	5	5
353928	96 square well, flat bottom plate and lid	-	-	-	5	5

### Corning BioCoat™ HTS Caco-2 Assay System, PET Membrane

Contains specially formulated serum-free medium, culture supplements, sodium butyrate, and BioCoat Fibrillar Collagen 24-well insert system

354802	BioCoat HTS Caco-2 assay system	6.4	0.3	1.0	5	5
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### Corning BioCoat Fibrillar Collagen I 24-Multiwell Insert System, PET Membrane

354803	With feeder tray and lid	6.4	0.3	1.0	1	1
354804	With feeder tray and lid	6.4	0.3	1.0	1	5

### Corning BioCoat (Fibronectin) Angiogenesis System: Endothelial Cell Migration, FluoroBlok PET Membrane

354144	24 Multiwell insert system	6.4	0.3	3.0	5	5
354148	96 Multiwell insert system	3.2	0.08	3.0	5	5

### Corning BioCoat (Matrigel® matrix) Angiogenesis System: Endothelial Cell Invasion, FluoroBlok PET Membrane

354142	24 Multiwell insert system	6.4	0.3	3.0	5	5
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### Corning BioCoat (Matrigel matrix) Tumor Invasion Systems, FluoroBlok PET Membrane

354165	24 Multiwell insert system	6.4	0.3	8.0	1	1
354166	24 Multiwell insert system	6.4	0.3	8.0	5	5
354167	96 Multiwell insert system	3.2	0.08	8.0	1	1
354168	96 Multiwell insert system	3.2	0.08	8.0	1	5

### Corning Gentest™ Pre-coated PAMPA Plate System

353015	96-well polyvinylidene difluoride (PVDF) insert system pre-coated with structured layers of phospholipids	3.2	–	0.4	1	5
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## Additional Resources

Below is a sampling of the many resources available for permeable support users on the Corning Life Sciences website. Visit [www.corning.com/lifesciences](http://www.corning.com/lifesciences) to access documents, videos, and more.

### Protocols

- ▶ Cell Migration, Chemotaxis and Invasion Assay Protocol (CLS-AN-061)
- ▶ Cell Migration, Chemotaxis and Invasion Assay Using Staining Protocol (CLS-AN-211)
- ▶ Fixation and Staining Procedure for Transwell® Inserts Protocol
- ▶ Preparation of Transwell Inserts for Histology Protocol (CLS-AN-335)
- ▶ Trypsinization Procedure for Transwell Inserts Protocol (CLS-AN-033)

### References and Bibliographies

- ▶ Testing Cell Monolayer Integrity on Transwell Permeable Supports (CLS-AN-047W)

### Selection and Use Guide

- ▶ Transwell Permeable Supports Selection and Use Guide (CLS-CC-007W)

### Technical Reports

- ▶ Automated, Kinetic Imaging of Cell Migration and Invasion Assays Using Corning® FluoroBlok™ Inserts (CLS-DL-AC-AN-310)
- ▶ Compatible Fluorophores and Dyes for Corning FluoroBlok Inserts and Insert Systems (CLS-DL-CC-077)
- ▶ Considerations when Optimizing your Chemotaxis or Invasion Assay with Corning Transwell Permeable Supports (CLS-AN-188)
- ▶ Corning HTS Transwell-96 Permeable Support Protocols for Drug Transport Application Note (CLS-AN-058)
- ▶ Design and Evaluation of an Automation-compatible Multiwell Insert for Cell-based Assay (CLS-DL-CC-072)
- ▶ *In Vitro* Study of Cytokine-mediated Activation of Endothelial Cell Permeability Using Falcon® Cell Culture Permeable Supports (CLS-DL-CC-068)
- ▶ Migration of Human Mesenchymal Stem Cells using Corning FluoroBlok Inserts (CLS-DL-CC-054)
- ▶ New PET Membrane for Corning FluoroBlok 3.0 µm and 8.0 µm Pore Size Cell Culture Inserts (CLS-DL-CC-042)
- ▶ Preparation of Falcon Cell Culture Permeable Supports for Confocal Indirect Immuno-fluorescence: Fixation and Staining of Caco-2/bbe (C2) Cells with Various Dyes (CLS-DL-CC-079)
- ▶ Screening of Anti-metastatic Compounds by a Fluorescence-based Tumor Cell Invasion Assay (CLS-DL-CC-076)
- ▶ Use of Falcon Cell Culture Permeable Supports to Reconstruct a Differentiated Human Epidermis *In Vitro* (CLS-DL-CC-066)
- ▶ ATCC® Human Bronchial/Tracheal Epithelial Cells and Falcon Permeable Supports: Improving Functional Studies (CLS-F-AN-328)
- ▶ Corning Matrigel Matrix-coated Transwell Permeable Supports for Enhancing Hepatocyte Differentiation from Human Embryonic Stem Cells (CLS-DL-AN-372)

For more specific information on claims, visit the Certificates page at [www.corning.com/lifesciences](http://www.corning.com/lifesciences).

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