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MilliporeSigma

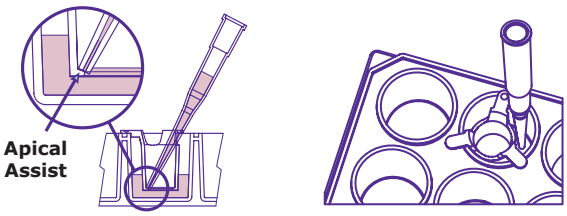
Discover a Better Cell Culture Insert

Millicell® hanging cell culture inserts for 2.5D cell culture and chemotaxis

Millicell® cell culture inserts and plates provide a permeable support for cell growth, allowing cells access to media and nutrients from the apical and basolateral sides. This feature more closely mimics the *in vivo* cellular environment of cells compared to conventional seeding on polystyrene plates. Researchers can perform a wide variety of cellular assays, ranging from organotypic cell culture to more classic Boyden chamber assays for migration, invasion and chemotaxis.

Millicell® hanging cell culture inserts feature optically clear (low pore density) and translucent (high pore density) tissue-culture treated PET membrane in a wide range of pore sizes and well formats. The inserts are individually blister packed and gamma sterilized. They are compatible with most cell culture plates.

Features



The apical assist rim allows for reduced pipette-related damage to the membrane, easy basolateral access, and decreased risk of contamination or monolayer disruption

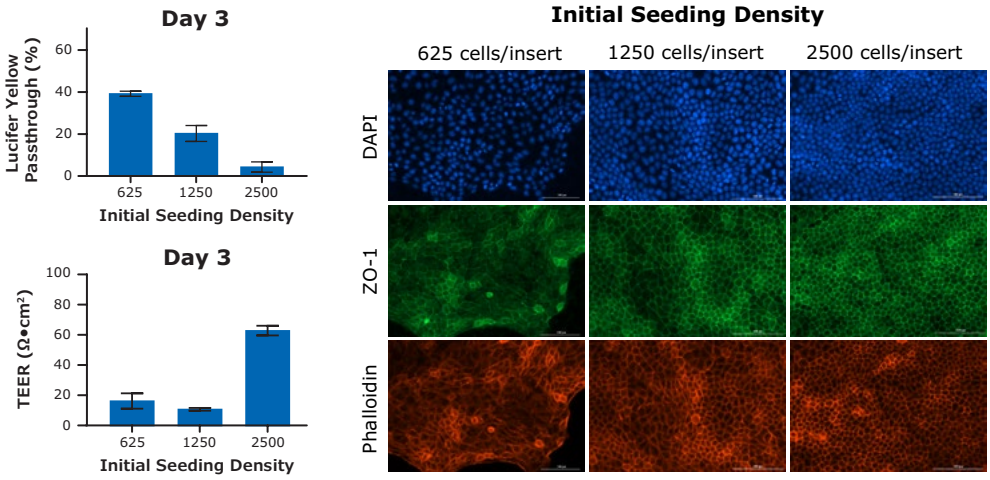
Comparison of 0.4 µm translucent membrane (left) and 0.4 µm clear membrane (right)

Benefits

- The optically clear/low pore density membranes support brightfield imaging and fluorescence microscopy.
- The translucent/high pore density membranes allow for increased rates of basolateral diffusion of nutrients to cells.

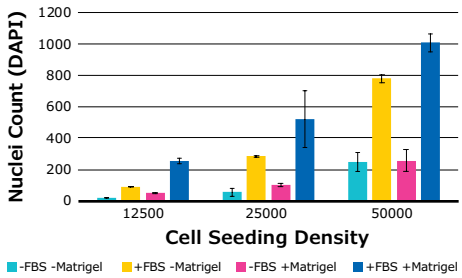
Barrier Assay Data and Fluorescence Imaging

MDCK II cells grown on Millicell® 1.0 µm clear inserts (PTRP24H48). Cells were stained and imaged directly in cell culture plates.



Cell Migration Assay Quantification Data

- 8.0 µm translucent membrane (PTEP24H48)
- HT 1080 cell line (highly invasive)
- 24-hr migration period
- 10% FBS chemoattractant
- 200 µg/mL Matrigel® ECM



Ordering Information

Millicell® hanging cell culture inserts with PET membrane. Individually blister-packaged and sold in packs of 48.

Pore Size (µm)	Pore Density (pores/cm²)	Optical Clarity	6-well Cat. No.	12-well Cat. No.	24-well Cat. No.
0.4	100 x 10⁶	Translucent	PTHT06H48	PTHT12H48	PTHT24H48
	4 x 10⁶	Clear	PCHT06H48	PCHT12H48	PCHT24H48
1.0	22 x 10⁶	Translucent	PLRP06H48	PLRP12H48	PLRP24H48
	2 x 10⁶	Clear	PTRP06H48	PTRP12H48	PTRP24H48
3.0	2 x 10⁶	Translucent	PTSP06H48	PTSP12H48	PTSP24H48
	0.6 x 10⁶	Clear	PCSP06H48	PCSP12H48	PCSP24H48
5.0	0.6 x 10⁶	Translucent	PTMP06H48	PTMP12H48	PTMP24H48
8.0	0.2 x 10⁶	Translucent	PTEP06H48	PTEP12H48	PTEP24H48
	0.06 x 10⁶	Clear	PCEP06H48	PCEP12H48	PCEP24H48

To place an order or receive technical assistance in the U.S. and Canada, call toll-free 1-800-645-5476
For other countries across Europe and the world, please visit: **EMDMillipore.com/offices**
For Technical Service, please visit: **EMDMillipore.com/techservice**

MilliporeSigma
400 Summit Drive
Burlington, MA 01803

EMDMillipore.com

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