

Millicell[®] Culture Plate Inserts

Millicell-HA

PIHA 012 50, PIHA 030 50

Millicell-CM

PICM 012 50, PICM 030 50

Millicell-PCF

PIHP 012 50, PIHP 030 50, PITP 012 50,
PI8P 012 50, PIXP 012 50

Contents: 1 Box of 50 Inserts

Introduction

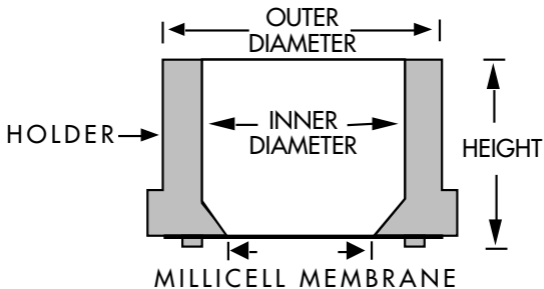
Millicell® tissue culture plate well inserts are sterile, general purpose devices for the growth and differentiation of various cell types.

Millicell tissue culture plate well inserts are single-use products consisting of a filter sealed to a cylindrical polystyrene holder. The 12 mm inserts are used in 12- or 24-well culture plates. The 30 mm inserts are used in 6-well culture plates.

NOTE: When working with Millicell inserts, use appropriate tissue culture media, reagents, and growth environments as well as aseptic technique.

For information on ECM coating (required for attachment-dependent cells on the Millicell-CM insert), staining, or other Millicell-related procedures, contact Technical Service. Or, visit our web site at: www.millipore.com/millicell.

Diagram of Millicell Culture Plate Insert



Directions

Perform the following steps in a laminar flow hood or equivalent controlled environment.

CAUTION: Do not use at temperatures above 50 °C to ensure accurate results. Do not reuse inserts.

1. Prepare culture plate wells before opening the Millicell inserts. Add tissue culture medium to each well. If using:
12 mm inserts, the recommended inside volume is 400 μ L and the outside volume is 600 μ L;
30 mm inserts, the recommended inside and outside volumes are 1.5 to 2.0 mL each.

Prepare enough wells for experiments and controls.

CAUTION: Do not use with strong acids or bases, or organic solvents incompatible with the membrane, and/or polystyrene.

2. Peel off the cover sheet from the blister package containing the Millicell insert.

CAUTION: Do not use inserts that have damaged membrane, such as cracks or holes.

3. Use sterilized forceps to remove the insert from the package. Do not touch the membrane.
4. Repeat steps 2 and 3 until a Millicell insert is placed into each prepared well. Make sure the inserts are positioned correctly, with the membrane section closest to the well bottom.
5. Allow several minutes for the membrane in each insert to become moistened with the tissue culture medium that was added in step 1.
6. Seed the cells onto the inside of the insert above the membrane.
7. Follow standard tissue culture incubation/feeding procedures for cell growth and monolayer formation.

NOTE: Be sure not to puncture the membrane or disturb cultured cells during medium addition or removal.

Specifications

	<u>12 mm</u>	<u>30mm</u>
Height (including feet):	1.0 cm	1.3 cm
Height of Feet:	1–2 mm	1–2 mm
Outer Diameter:	1.2 cm	3.0 cm
Inner Diameter:	1.0 cm	2.7 cm
Membrane Area (effective):	0.6 cm ²	4.2 cm ²
Temperature Limit:	50 °C	

Membrane Pore Sizes: 0.4, 0.45, 3.0, 8.0, and 12.0 µm

Solvent Compatibility: Incompatible with strong acids, strong bases, and certain organic solvents. Check compatibility chart in Millipore Laboratory Catalogue.

Sterility: Inserts are shipped sterile and ready-for-use. If the package is open or damaged before use, sterility cannot be guaranteed.

Materials of Construction

Available Membrane Types: HA (Mixed cellulose esters), PCF (Tissue culture-treated, Isopore™ track-etched PVP-free polycarbonate), CM (Hydrophilic PTFE).

Plastic Holder: Polystyrene

Ordering Information

Millicell Membrane	Pore Size	Insert Size	Catalogue Number (50/box)
HA	0.45 μm	12 mm	PIHA 012 50
		30 mm	PIHA 030 50
CM	0.4 μm	12 mm	PICM 012 50
		30 mm	PICM 030 50
PCF	0.4 μm	12 mm	PIHP 012 50
		30 mm	PIHP 030 50
	3.0 μm	12 mm	PITP 012 50
	8.0 μm	12 mm	PI8P 012 50
	12.0 μm	12 mm	PIXP 012 50
Organotype (Low Height: 5mm)			
CM	0.4 μm	30 mm	PICM ORG 50

Accessories

Millicell-ERS Resistance System (measures membrane potential and resistance of epithelial cells in culture) MERS 000 01

Technical Information

For more information, contact the Millipore office nearest you. In the U.S., call **1-800-MILLIPORE** (1-800-645-5476). Outside the U.S., see your Millipore catalogue for the phone number of the office nearest you or go to our web site at www.millipore.com/offices for up-to-date world-wide contact information. You can also visit the tech service page on our web site at www.millipore.com/techservice. For the most up-to-date information on Millicell products, see www.millipore.com/millicell.

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