

Millicell[®]-CM Low Height Culture Plate Inserts



PICM ORG 50

Contents: 1 Box of 50 Inserts

Introduction

The Millicell[®]-CM Organotypic tissue culture plate inserts are sterile, single-use devices consisting of a filter sealed to a cylindrical polystyrene holder. The lower wall height of these devices enables the use of optical microscopes and electrophysiology equipment during the growth and differentiation of a variety of cell and tissue culture types.

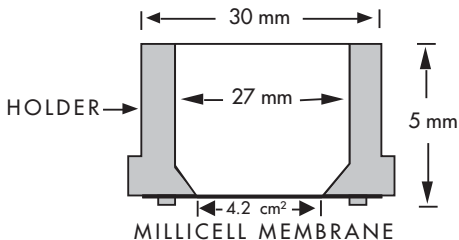
These inserts are versatile tools for studying both attachment-dependent cells and suspension cell cultures. The microporous membrane of the Millicell insert allows access to both the apical (top) and basolateral (bottom) sides of epithelial cells. So, cells grown on Millicell inserts more closely approximate their *in vivo* state than those grown on regular plastic plates.

Millicell-CM inserts use a transparent Biopore[™] CM membrane to allow viewing of cells as they grow. Although compatible with commercially available six-well tissue culture plates, these inserts are usually used individually in standard 35 or 50 mm petri dishes to reduce the possibility of contamination.

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, staining, or other Millicell-related procedures, contact Technical Service and ask for the appropriate technotes.

Diagram of Millicell-CM 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. Before opening the Millicell inserts, prepare culture plates or petri dishes by adding approximately 1.1 mL culture medium — just enough medium to wet the exposed surfaces of the explant, but not to submerge them.

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

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

3. Use sterilized forceps to remove the insert from the package. Do not touch the membrane.
4. Repeat steps 2 and 3 until you have placed as many Millicell inserts as you need into the prepared tissue culture plate or petri dish. Make sure the inserts are positioned correctly, with the membrane section closest to the well bottom.
5. Allow several minutes for the membranes to become moistened with the tissue culture medium that was added in step 1.
6. Seed the cells or tissue onto the inside of the insert, above the membrane.
7. Follow your protocol for tissue explant culture.

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

Product Ordering Information

Description	Qty	Cat. No.
Millicell-CM 30 mm, low height	1/pk, 50/box	PICM ORG 50

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 worldwide 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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PR01717, Rev.-, 08/04 Printed in Ireland.

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