

MultiScreen[®] - MIC Plate

User Guide

MAMI C3S 10 (Qty: 10/pk); MAMI C5S 10 (Qty: 10/pk); MAMI C8S 10 (Qty: 10/pk)

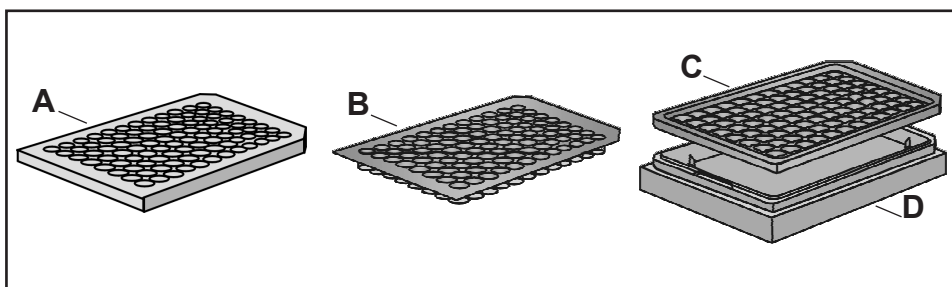
Introduction

The MultiScreen-MIC (Migration, Invasion, Chemotaxis) plate is a 96-well disposable device for use in functional assays for screening protein libraries and compound leads for drug discovery. It is designed to support high throughput cell-based functional assays such as Migration, Invasion, and Chemotaxis with suspension and/or adherent cell lines, using a single device. The plates can be used to perform and quantify Cell Migration or Invasion across coated or uncoated membranes in response to a concentration gradient. The MultiScreen-MIC plates are available in several pore sizes to accommodate MIC assays with a variety of cell lines and are intended for single use only.

Materials Supplied

The MultiScreen-MIC device consists of the following parts:

- A – Lid
- B – 96 well filter plate
- C – 96 well receiver plate
- D – Single well tray



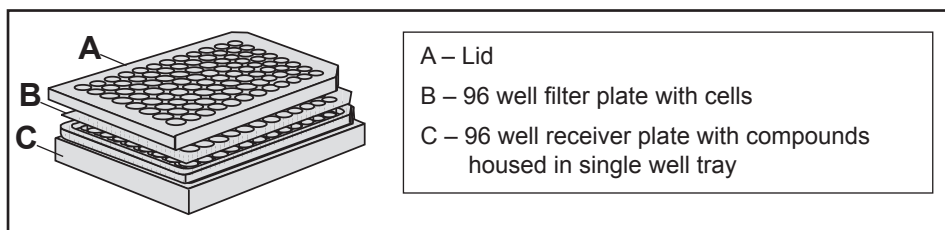
Device Storage

Store at room temperature.

Setting up MultiScreen-MIC Plates for Migration Assays

NOTE: Steps 1-4 must be performed using standard cell culture aseptic technique.

1. Disassemble the MultiScreen-MIC plate by removing the filter plate and placing it in a sterile single-well cell culture tray (Millipore Cat. No. MAMC S01 10).
2. Add compounds for evaluation to the wells of the tear drop receiver plate.
NOTE: The recommended volume is 150 μL per well.
3. Add cells at desired density to wells in the filter plate.
NOTE: The recommended volume is 50-75 μL per well.
4. Gently reassemble the MultiScreen-MIC plate as shown below.
5. Incubate the plate at 37 °C for desired length of time.
6. Gently disassemble the plate.
NOTE: To prevent spillover or cross-talk into adjacent wells during disassembly, aspirate cells from upper filter wells prior to step 6.
7. Evaluate the cells that have migrated to the receiver plate by using a pre-standardized detection method such as microscopic counting, image analysis, or labeling cells with a fluorescent dye.



Setting up MultiScreen-MIC Plates for Invasion Assays

NOTE: Steps 1-5 must be performed using standard cell culture aseptic technique.

1. Coat the filter wells with a pre-optimized concentration of extracellular matrix (the concentration of extracellular matrix is cell line specific). The recommended volume to coat the wells is 30–50 μL per well.
2. Disassemble the MultiScreen-MIC plate by removing the filter plate and placing it in a sterile single-well cell culture tray (Millipore Cat. No. MAMC S01 10).
3. Add compounds for evaluation to the wells of the tear drop receiver plate.
NOTE: The recommended volume is 150 μL per well.

Setting up MultiScreen-MIC Plates for Invasion Assays, continued

4. Add cells at desired density to wells in the filter plate.
NOTE: The recommended volume is 50-75 μL per well.
5. Gently reassemble the MultiScreen-MIC plate as shown above.
6. Incubate the plate at 37 °C for desired length of time.
7. Quantify the cells that have invaded the underside of the filter plate membrane with a pre-standardized detection method such as staining (e.g., Fisher's Hema 3[®] stain kit), or detach cells from the membrane underside into the receiver plate for subsequent labeling with a fluorescent dye.

Product Specifications

Materials of Construction

Lid, filter plate, and single-well housing tray: Clear polystyrene

Receiver plate: PETG

Membrane

Membrane: Polycarbonate

Active membrane area: 0.3 cm²/well

Capacity

Filter wells: Maximum 350 μL

Receiver plate wells: Maximum 400 μL

Typical Operating Volume

Filter wells: 50-75 μL

Receiver plate wells: 150 μL

Properties

Filter plate: Plasma Treated

Sterilization: Gamma Irradiation (all components)

Limitations

Incubation: 37 °C, 95% relative humidity

Product Ordering Information

This section lists the catalogue numbers for MultiScreen-MIC devices and accessories. See the Technical Assistance section for information about contacting Millipore. You can also buy Millipore products on-line at www.millipore.com/products.

Plate Description	Cat. No.	Qty/Pk
MultiScreen-MIC plate, 3 μ m	MAMI C3S 10	10
MultiScreen-MIC plate, 5 μ m	MAMI C5S 10	10
MultiScreen-MIC plate, 8 μ m	MAMI C8S 10	10
Accessory products		
Single-well cell culture tray	MAMC S01 10	10
96-well receiver plate	MAMC S96 10	10

Technical Assistance

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 <http://www.millipore.com/techservice>.

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