



MMA205 | Millicell® μ -Migration Assay Kit



This Kit overcomes the limitations of traditional multiwell migration assays. Its microfluidic, low-volume technology promotes a stable, diffusion-generated concentration gradient that is consistently [More>>](#)

MMA205

1 Kit
Le prix n'a pas pu être récupéré
La quantité minimale doit être un multiple de

Les prix peuvent être modifiés sans préavis

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Aperçu

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Tableau de caractéristiques principal

Key Applications	
Track single cell and cell population migration (migration assay, cell culture)	
Description	
Catalogue Number	MMA205
Trade Name	Millicell
Description	Millicell® μ -Migration Assay Kit

Description	
Overview	Cell migration occurs in a variety of biological processes including wound healing, embryonic development, and immune response. Because of the importance of cell migration in angiogenesis, oncology, neurology, and especially immunology, there is an increased interest in understanding the underlying biological mechanisms at a single cell level. Traditional multiwell (Boyden chamber) migration assays can have limitations, such as: (1) gradients are not linear, well-established, or controlled, (2) quantification of migratory cells is based on an endpoint measurement rather than a dynamic determination, and (3) imaging of the cells while they are migrating is currently not possible. The Millicell μ-Migration Assay Kit overcomes these limitations. Its microfluidic, low-volume technology promotes a stable, diffusion-generated concentration gradient that is consistently linear and lasts for more than 48 hours. Designed for video microscopy assays, the μ-Migration Slide is made from a plastic with high optical qualities similar to those of glass. At specific time intervals, images of the observation area can be acquired, allowing real-time monitoring and quantitative measurements of cell migration. Benefits • Live cell tracking of single cell or cell population migration • Establishes a stable and linear concentration gradient that lasts ≥ 48 hours • Helps distinguish chemotaxis from random movement • Allows for multiparametric analysis, including cell directionality and velocity • Enhanced optical imaging of slow- and fast-migrating cells • Analyze 3 chemoattractants in parallel for increased throughput and flexibility • No need to spend time or money on optimization • Ready to use, no assembly needed How the Kit Works For detailed videos and instructions on the use of the μ-migration kit, please visit: Millicell® μ-Migration Assay Kit For instructions on how to access and use the free Image-J plug-in software to analyze the data and images collected using the μ-Migration Assay Kit, please visit: Millicell® μ-Migration Assay Kit.
Materials Required but Not Delivered	1. Adherent cells 2. Inverted Microscope (phase contrast, fluorescence, etc.) 3. Heating stage 4. Time-lapse video equipment (CCD camera, video camera, acquisition software) 5. Motorized stage and autofocus (x,y,z) (optional) 6. Precision pipettes and pipette tips (10 μL and 200 μL) 7. Fisherbrand Micropipette 0.1-10 μL Tips 8. Accutase™ Cell Dissociation Solution (Catalog. No. SCR005) 9. Cell culture growth medium 10. Phosphate-Buffered Saline (1X PBS) (Catalog No. BSS-1005-B) 11. Sterile distilled water (Cat. No. TMS-006-C or TMS-006-B) 12. Low speed centrifuge 13. Sterile microcentrifuge tubes 14. 37°C Incubator with 5% CO₂ 15. Scepter™ Handheld Automated Cell Counter (Cat No. PHCC20040 or PHCC20060) or Hemacytometer 16. Trypan Blue (optional)

Product Information	
Components	• 1. Millicell® μ-Migration Slides: (Part No. CS204500) Four uncoated sterilized slides. Each slide contains 3 chambers. • 2. Millicell μ-Migration Caps and Plugs: (Part No. CS204501) Forty-eight of each. Twelve caps and twelve plugs for each slide. • 3. Human Collagen IV: (Part No. CS204498) One 100 μg vial of 1 mg/mL Human Collagen IV. • 4. Acetic Acid Buffer: (Part No. CS204485) One vial containing 1.5 mL of 0.5 M acetic acid. • 5. BSA Solution: (Part No. CS204507) One vial containing 100 μL of 30% BSA solution. • 6. Beveled pipette tips: Fisherbrand® SureOne™ 200 μL tips, Fisher Cat. No. 02-707-419. Two 96-tip boxes.

Applications	
Application	This Kit overcomes the limitations of traditional multiwell migration assays. Its microfluidic, low-volume technology promotes a stable, diffusion-generated concentration gradient that is consistently linear & lasts for more than 48 hours.
Key Applications	• Track single cell and cell population migration (migration assay, cell culture)

Biological Information

Biological Information	
Species Reactivity	- Human - Rat - Mouse
Product Usage Statements	
Usage Statement	Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.
Product Usage Statements	
Storage and Shipping Information	
Storage Conditions	1. Millicell® µ-Migration Slides (Part No. CS204500). Store at room temperature. 2. Millicell µ-Migration Caps and Plugs (Part No. CS204501) Store at room temperature. 3. Human Collagen IV (Part No. CS204498) Store at -20°C. 4. Acetic Acid Buffer (Part No. CS204485) Store at room temperature. 5. BSA Solution (Part No. CS204507) Store at -20°C. 6. Beveled Pipette Tips. Store at room temperature.
Packaging Information	
Material Size	1 Kit

Nous contacter

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