

CytoSelect 96-well Cell Migration Assay (3 μ m), Fluorometric Assay Kit

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CATALOG #
AAA44540

PRODUCT SYNONYMS

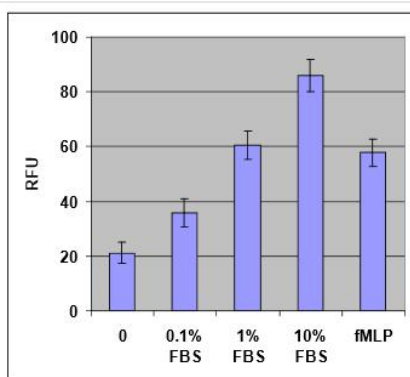
CytoSelect 96-well Cell Migration Assay (3 μ m); Fluorometric; Fluorometric assay kit

PRODUCT SPECIFICATIONS

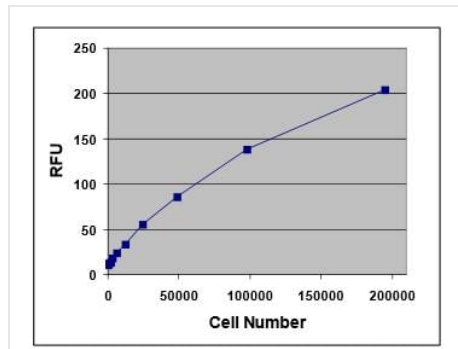
Preparation and Storage

Store all components at 4 degree C until their expiration dates.

IMAGES



Application Data



Application Data

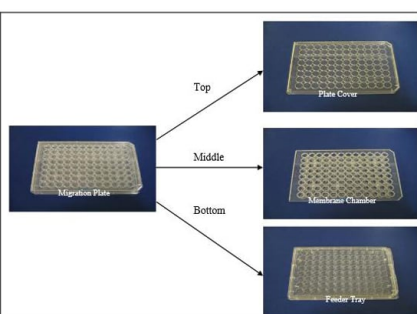
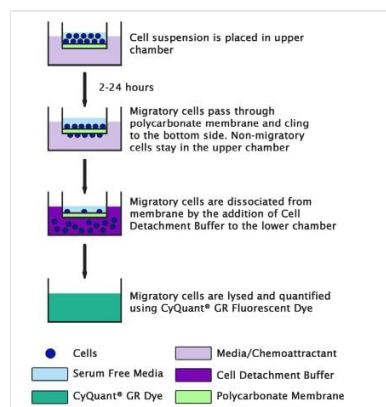


Figure 1: Components of the 96-well Cell Migration Plate.

Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CytoSelect 96-well Cell Migration Assay (3 µm), Fluorometric assay kit	Background: Cell migration is a highly integrated, multistep process that orchestrates embryonic morphogenesis, tissue repair and regeneration. It plays a pivotal role in the disease progression of cancer, mental retardation, atherosclerosis, and arthritis. The initial response of a cell to a migration-promoting agent is to polarize and extend protrusions in the direction of the attractant; these protrusions can consist of large, broad lamellipodia or spike-like filopodia. In either case, these protrusions are driven by actin polymerization and can be stabilized by extracellular matrix (ECM) adhesion or cell-cell interactions. CytoSelect 96-well Cell Migration Assay Kit utilizes a polycarbonate membrane plate (3 µm pore size) to assay the migratory properties of cells. The kit does not require you to prelabel the cells with Calcein AM or remove non-migratory cells (i.e. cotton swabbing). Any migratory cells are first dissociated from the membrane, then lysed and detected with CyQuant GR Dye. CytoSelect 96-well Cell Migration Assay Kit provides a robust system for the quantitative determination of cell migration. The kit contains sufficient reagents for the evaluation of 96 samples. The 3 µm pore size is optimal for leukocyte cell migration. However, in the case of epithelial or fibroblast chemotaxis, a larger pore size (8 µm) is recommended. The CytoSelect Cell Migration Assay Kit contains a polycarbonate membrane chamber (3 µm pore size) in a 96-well plate. The membrane serves as a barrier to discriminate migratory cells from non-migratory cells. Migratory cells are able to extend protrusions towards chemoattractants (via actin cytoskeleton reorganization) and ultimately pass through the pores of the polycarbonate membrane. These migratory cells are then dissociated from the membrane and subsequently detected with CyQuant GR Dye.
Product Categories/Family for CytoSelect 96-well Cell Migration Assay (3 µm), Fluorometric assay kit	Cell Based Assays; Cell Migration; Invasion and Wound Healing; Boyden Chamber Assays; Chemotaxis Assays
References	1. Ridley AJ, Schwartz MA, Burridge K, Firtel RA, Ginsberg MH, Borisy G, Parsons JT, Horwitz AR. (2003) Science 302, 1704-9. 2. Horwitz R, Webb D. (2003) Curr Biol. 13, R756-9. 3. Lauffenburger DA, Horwitz AF. (1996) Cell 84, 359-369. 1. Li, X. et al. (2011). Kaposi's Sarcoma-associated Herpesvirus-encoded latency-associated nuclear antigen reduces Interleukin-8 expression in endothelial cells and impairs neutrophil chemotaxis by degrading nuclear p65. J. Virol. 85:8606-8615. 2. Chatterjee, S. et al. (2009). Site-specific carboxypeptidase B1 tyrosine nitration and pathophysiological implications following its physical association with nitric oxide synthase-3 in experimental sepsis. J. Immunol. 183:4055-4066.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/cytoselect-96-well-cell-migration-assay-3-um-fluorometric/44540>