

CytoSelect Cell Migration and Invasion Assay (8 μ m) Assay Kit

CytoSelect 96-well Cell Migration and Invasion Assay (8 μ m), Fluorometric, Combo Kit

CATALOG #
AAA11417

PRODUCT SYNONYMS

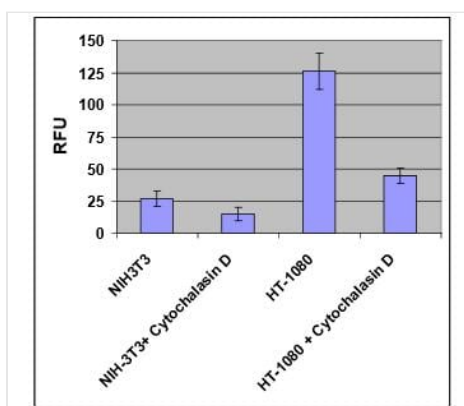
CytoSelect Cell Migration and Invasion Assay (8 μ m); CytoSelect 96-well Cell Migration and Invasion Assay (8 μ m); Fluorometric; Combo Kit; CytoSelect Cell Migration and Invasion Assay (8 μ m) assay kit

PRODUCT SPECIFICATIONS

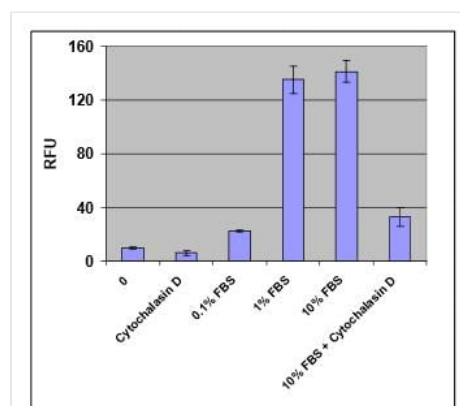
Preparation and Storage

Store all components at 4 degree C until their expiration dates

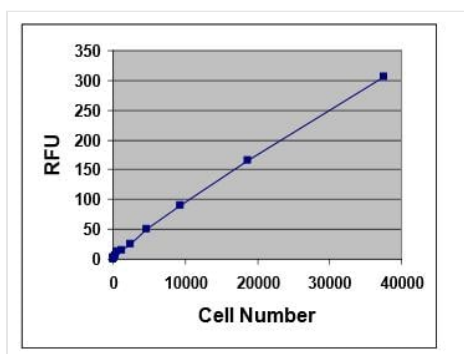
IMAGES



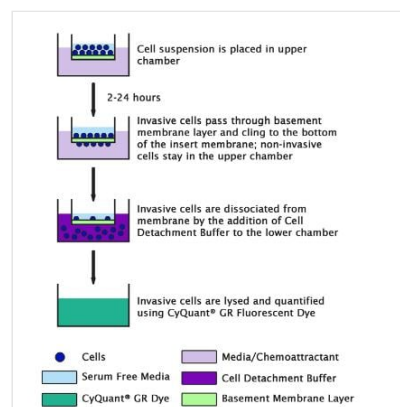
Application Data



Application Data



Application Data



Application Data

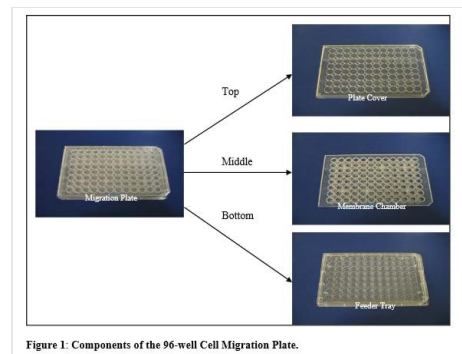
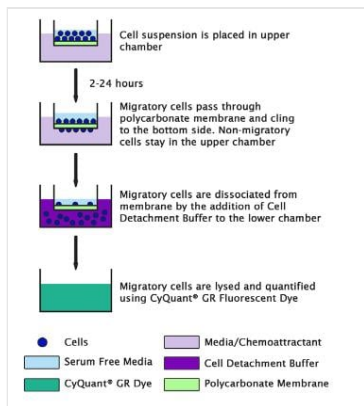


Figure 1: Components of the 96-well Cell Migration Plate.

Application Data

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ADDITIONAL INFORMATION

Related Product Information for CytoSelect Cell Migration and Invasion Assay (8 µm) 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. The ability of malignant tumor cells to invade normal surrounding tissue contributes in large part to the significant morbidity and mortality of cancers. Invasiveness requires several distinct cellular functions including adhesion, motility, detachment, and extracellular matrix proteolysis. Metastatic cells produce many proteolytic enzymes (e.g. lysosomal hydrolases, collagenases, plasminogen activators) while the expression of certain cell surface protease receptors is also increased. CytoSelect 96-well Cell Migration and Invasion Assay Kit utilizes a polycarbonate membrane plate (8 µm pore size) or basement membrane-coated inserts to assay the migratory or invasive properties of cells. The kit does not require you to prelabel the cells with Calcein AM or remove non-migratory or non-invasive cells (i.e. cotton swabbing). Any migratory or invasive cells are first dissociated from the membrane, then lysed and detected with CyQuant GR Dye. The CytoSelect 96-well Cell Migration and Invasion Assay Kit provides a robust system for the quantitative determination of cell migration. Each assay contains sufficient reagents for the evaluation of 96 samples. The 8 µm pore size is optimal for epithelial and fibroblast cell migration. However, in the case of leukocyte chemotaxis, a smaller pore size (3 µm) is recommended.

Product Categories/Family for CytoSelect Cell Migration and Invasion Assay (8 µm) assay kit

[Cell Based Assays](#); [Cell Migration](#); [Invasion and Wound Healing](#); [Boyden Chamber Assays](#); [Chemotaxis/Cell Invasion Combo Kits](#)

References

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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.

