

CytoSelect 96-well Cell Migration Assay (12 μ m), Colorimetric Assay Kit

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CATALOG #
AAA44567

PRODUCT SYNONYMS

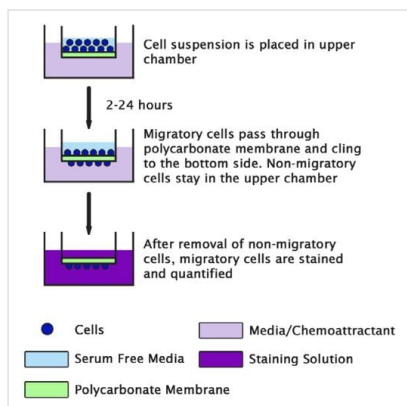
CytoSelect 96-well Cell Migration Assay (12 μ m); Colorimetric; Colorimetric assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage

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

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CytoSelect 96-well Cell Migration Assay (12 μ m), Colorimetric assay kit

Principle of the assay: The CytoSelect Cell Migration Assay Kit contains polycarbonate membrane inserts (12 μ m pore size) in a 24-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. Finally, the cells are removed from the top of the membrane and the migratory cells are stained and quantified.

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 (via transmembrane receptors). CytoSelect Cell Migration Assay Kit utilizes polycarbonate membrane inserts (12 μ m pore size) to assay the migratory properties of cells. The kit contains sufficient reagents for the evaluation of 12 samples. The 12 μ m pore size is optimal for studying slow moving cells or cells with large size such as primary astrocytes.

Product Categories/Family for CytoSelect 96-well Cell Migration Assay (12 μ m), Colorimetric 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.
- Hammer, K. et al. (2015). Engineered adenoviruses combine enhanced oncolysis with improved virus production by mesenchymal stromal carrier cells. Int J Cancer. doi: 10.1002/ijc.29442.

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-12-um-colorimetric/44567>