

ORIS™ CELL-BASED ASSAYS

Accelerate Your Cell Motility Research

cancer metastases cell proliferation drug discovery siRNA screening

High-Content Screening (HCS) wound healing inflammation signal transduction

Imaging (HCI) cancer metastases cell proliferation drug discovery

High-Content Screening (HCS) wound healing inflammation signal transduction

Imaging (HCI) cancer metastases cell proliferation drug discovery siRNA screening

High-Content Screening (HCS) wound healing inflammation signal transduction High Content

Imaging (HCI) cancer metastases cell proliferation drug discovery siRNA screening

High-Content Screening (HCS) wound healing inflammation signal transduction High Content

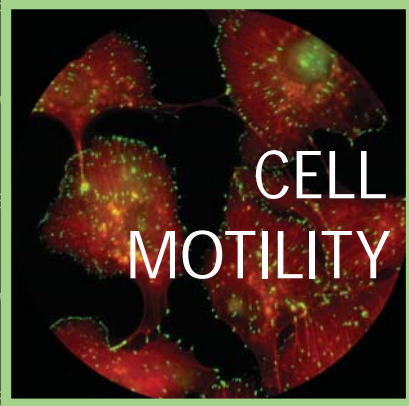
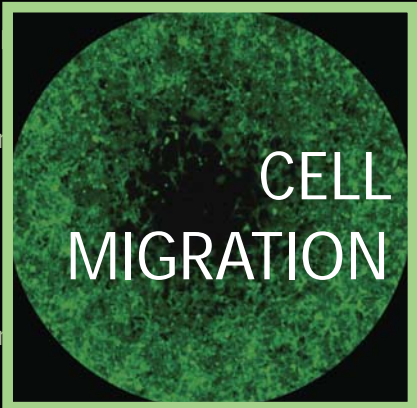
Imaging (HCI) cancer metastases cell proliferation drug discovery siRNA screening

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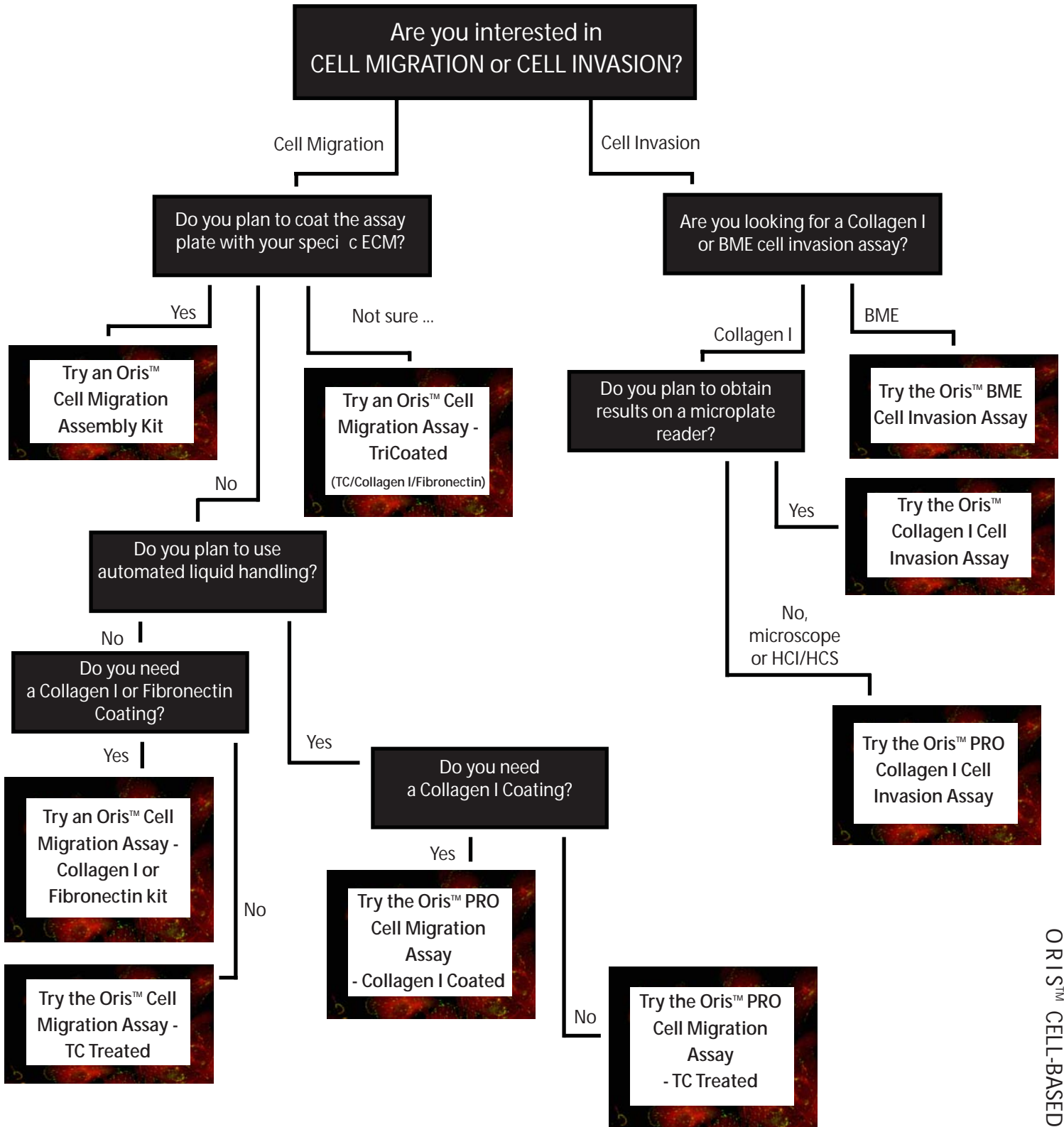
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Oris™ Solution

Which Oris™ Assay is BEST for me?



ORIS™ CELL-BASED ASSAYS

Oris™ Pro Cell Migration Assay

Accelerate Your Cell Migration Research

Product Overview

The Oris™ Pro Cell Migration Assay enables the use of automated liquid handling equipment for cell seeding and allows unlimited access to cells throughout the experiment.

Creating the Detection Zone

The Oris™ Pro Assay uses a non-toxic biocompatible gel (BCG) to form a cell-free zone on cell culture surfaces. After seeding cells into the 96-well plate, the BCG dissolves permitting cells to migrate into the Detection Zone.

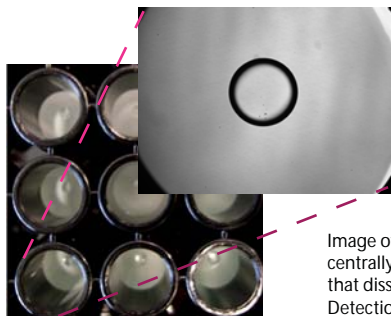
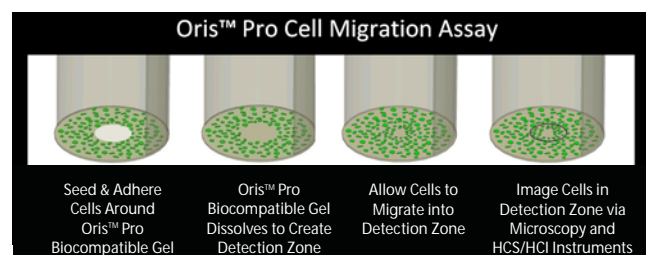


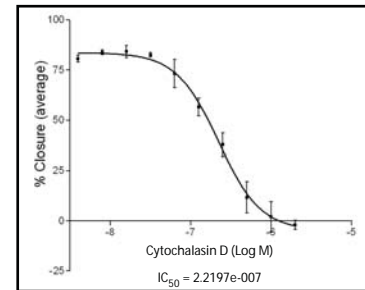
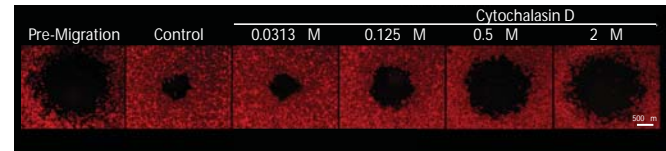
Image of well bottom with centrally deposited BCG that dissolves to reveal the Detection Zone.

Measuring Cell Migration

Cells can be treated with one or multiple stains or labels. The cells in the Detection Zone can be captured and quantified in real-time using microscopes and High Content Screening (HCS)/High Content Imaging (HCI) instruments. Staining live cells at the beginning of the experiment permits real-time images to be captured at any time point. Both endpoint and kinetic data can be generated.



Representative Results



HUVECs were seeded onto an Oris™ Pro Collagen I plate. A dose-response titration was performed using the actin polymerization inhibitor, Cytochalasin D. Cells were treated for 18 hours, fixed, and stained for F-actin. Images were acquired using the BD Pathway™ 855 Bioimaging System and a dose-response curve with IC_{50} was generated (n=4).

Materials Provided

Oris™ Pro Tissue Culture Treated, 96-well plate with BCG
Oris™ Pro Collagen I Coated, 96-well plate with BCG

Product Highlights

Increased Productivity

Treat cells with multiple fluorescent probes, labels, or colorimetric stains for multi-parametric measurements with microscopes, High Content Screening (HCS) and High Content Imaging (HCI) instruments.

Less Handling

Realize reduced assay handling time with an assay format in which a centrally placed biocompatible gel automatically dissolves to reveal a detection zone.

Automation-Friendly Design

Utilize automated liquid handling equipment for fast set-up of high throughput, 96-well assays.

Reproducible Results

Achieve well-to-well CV's <12% and generate robust Z' factors suitable for compound screening.

Real-Time Analysis

Experience unlimited access to cells, cell morphology and cell movement throughout your experiment.

ORIS™ CELL-BASED ASSAYS

Accelerate Your Cell Motility Research

Product Listing

| Product Name | Coating | Size | Detection Zone Format | Instrument Compatibility |
|------------------------------------|------------------------------------|--|--|--|
| Oris™ Pro Cell Migration Assays | Tissue Culture Treated | 1-pack (PROCMA1) 5-pack (PROCMA5) | Biocompatible Gel | High Content Screening/Imaging Inverted Microscope |
| | Collagen I Coated | 1-pack (PROCMACC1) 5-pack (PROCMACC5) | | |
| Oris™ Pro Cell Invasion Assays | Collagen I Coated | 1-pack (PROCIACC1) 2-pack (PROCIACC2) | | |
| Oris™ Cell Migration Assays | Tissue Culture Treated | 1-pack (CMA1.101) 5-pack (CMA5.101) | Oris™ Cell Seeding Stoppers (pre-populated) | High Content Screening/Imaging Inverted Microscope Microplate Reader |
| | Collagen I Coated | 1-pack (CMACC1.101) 5-pack (CMACC5.101) | | |
| | Fibronectin Coated | 1-pack (CMAFN1.101) 5-pack (CMAFN5.101) | | |
| | TriCoated | 1-pack (CMATR1.101) 5-pack (CMATR5.101) | | |
| Oris™ Cell Migration Assembly Kits | Universal (Tissue Culture Treated) | 1-pack (CMAU101) 5-pack (CMAU505) | Oris™ Cell Seeding Stoppers (not pre-populated) | |
| | FLEX (Tissue Culture Treated) | 4-pack (CMAUFL4) | | |
| Oris™ Cell Invasion Assays | BME | 1-pack (CIA101DE) 2-pack (CIA200DE) | Oris™ Cell Seeding Stoppers (pre-populated) | |
| | Collagen I | 1-pack (CIA101CC) 2-pack (CIA200CC) | | |

HCS/HCI Compatibility

BD Pathway™ Bioimager
 Cellomics ArrayScan® VTI HCS Reader
 GE IN Cell Analyzer
 Molecular Devices ImageXpress™ & Isocyte
 PerkinElmer Opera™ & Operetta™
 TTP LabTech Acumen® eX3

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