

Chemotaxis Assays – At a Glance

(SG 05 – FOR INTERNAL USE ONLY)



#80326
μ-Slide Chemotaxis ibiTreat



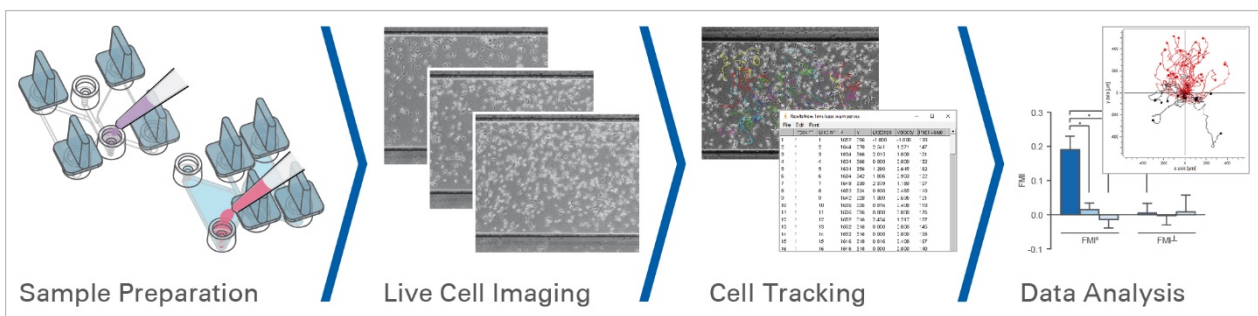
#80322
μ-Slide Chemotaxis Collagen IV



#80328
sticky-Slide Chemotaxis

Chemotaxis is the oriented migration of cells towards an attractant source or away from a repellent. The ibidi μ-Slide Chemotaxis offers:

- Chemotaxis measurements in 2D and 3D with single cell tracking
- Long-term live cell imaging under standardized conditions for up to 48 hours
- Complete workflow



Unique Selling Point

A ready-to use product for real-time chemotaxis studies of fast and slow migrating cells in 2D and 3D, suitable for high resolution imaging.

Applications

- Chemotaxis assays with fast or slow migrating cells, such as immune or cancer cells
- Chemotaxis measurements of adherent and suspended (non-adherent) cells in 2D (coating) and 3D (gel matrix), respectively
- Live cell imaging of migrating cells
- Invasion assays
- Drug and toxicology studies

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Features & Benefits

Feature	Benefit
Patented, specialized geometry	Long-term stable chemotaxis gradient
Polymer coverslip bottom	Perfect imaging under optimal cell culture conditions
For 2D or 3D cell culture	Use with adherent and suspended (non-adherent) cells Keep in mind: 3D is the more physiological environment
Experiments for up to 48 hours	Also suitable for slow migrating cells (e.g, tumor cells)
Data analysis with Chemotaxis FastTrack AI	Complete solution provider: One supplier for labware, assay, and image analysis (time saving)
Quick and competent support from ibidi experts	Fast assistance for better results

Competition

	ibidi	Transwell (e.g. Corning, Millipore)	iuvo Chemo- taxis Assay (BellBrook Labs)	CellDirect 2D or 3D (Gradienttech)	IncuCyte (Sartorius)
Working principle	Channel	Insert with porous membrane	Microchannel	Channel that requires pump	Plate reader with labware
High-res. imaging	Yes	No	No	Yes	No
Real-time	Yes	No	Yes	Yes	Yes
≥ 48h gradient	Yes	No	No	Yes	Yes
Fast & slow cells	Yes	No	No	Yes	Yes
3D possible	Yes	No	No	Yes	No
Ready to use	Yes	No	Yes	No	Yes
Image analysis	Yes	No	No	Yes	Yes
Costs	\$\$	\$	\$\$	\$\$	\$\$\$\$

Keywords for Customer Research

- Chemotaxis (chemoattractant, cell migration)
- Oncology (cancer, metastasis, transendothelial migration, tumor cells)
- Immunology (leukocytes, neutrophils, lymphocytes, monocytes, T cells, B cells, 3D gels, non-adherent cells)
- Pharmacology (drug development, toxicology, anti-cancer drugs)

Probing Questions (When answered with Yes, it's a hot lead!)

- Do you work in cancer research or immunology, and study cell migration?
- Do you use transwell inserts (Boyden chambers)?
- Do you want to cultivate your cells in a more physiological 3D environment during chemotaxis studies?

Cross Selling With

- ibidi Stage Top Incubation System (#10720 or #10722) for live cell imaging.
- Collagen I, rat tail for 3D gels (e.g., #50202)
- Chemotaxis FastTrack AI Image Analysis (e.g., #32200-60)
- LifeAct for actin visualization (e.g., #60101, #60151)