

LENA BIOSCIENCES

GradientEZ

About GradientEZ

GradientEZ is a versatile system used for 3D cell migration and invasion assays. It is composed of completely inert, transparent, and hydrophilic glass microfibers. Its six petal design enables parallel testing of multiple modulators of cell motility or invasion, drug gradients, or drugs in different concentrations.

GradientEZ is simple to use, yet enables researchers to study even higher order 3D cell processes in vitro, such as metastases. It is compatible with all cell types and extracellular matrices. Examples of cells used in GradientEZ include primary human neutrophils, T cells, B cells, cancer cells, and normal brain, bone, liver, lung cells and many more!

BENEFITS

- Permits the generation of complex & reproducible gradients of soluble factors and substrate-bound molecules
- Supports co- and counter-gradients of multiple test compounds applied in chemotaxis, invasion, and chemo-invasion assays
- Enables concurrent testing of drug combination strategies
- Enables the testing and study of metastases in vitro



HOW IT WORKS

- Migrating or invading cells, and different cell populations or test compounds may be added to the center and 6 petals or lobes.
- To test metastatic potential of cancer cells in vitro, add invasive cells to the center and normal cells (e.g. brain, lung, liver, bone, adrenal, etc.) to lobes and track invasion to begin to explain where they might metastasize in vivo

Why GradientEZ?

Chemical concentration gradients influence normal physiological processes, evolution and progression of many diseases. GradientEZ substrates enable researchers to model and study gradient-dependent pathological conditions in 3D including cancer, inflammatory, infectious and autoimmune diseases. It also enables them to test therapeutic strategies in these models in vitro.

Get in touch with us! Visit our website at www.lenabio.com. For inquiries, call (404)-206-2676 or email us at support@lenabio.com

