

IncuCyte™ Cell Health and Viability Assays

Real-time automated measurements of cell health and viability within your incubator



Real-time cell health and viability analysis inside your incubator

Drastically improve your lab's productivity with IncuCyte™ cell health and viability assays. Perform real-time cell health and viability analysis without removing your cells from the incubator, saving hours of valuable time and maintaining the quality of your experiments.



Get the answers you need

- Real-time continuous analysis—never miss a data point
- Maintain cells in optimal and stable conditions in the incubator



Save time and money

- Simplify experiments with IncuCyte reagents and protocols—spend less time troubleshooting, more time investigating
- Set up, walk away, and review unbiased, automated analyses



Protect your cells

- Maintain cell health and morphology with non-perturbing proprietary reagent formulations
- Reduce manipulations and loss of precious cells with mix-and-read reagents



Enjoy research flexibility

- Compatible with a variety of cell and culture types
- Multiplex reagents for additional insight

Confidently assess and measure cell health

Measurements of cell health (proliferation, apoptosis and cytotoxicity) are essential for studying the effects of drugs, culture conditions or genetic modifications on cell growth or viability.

- Rank compounds in drug discovery screens
- Investigate the cellular changes that underlie disease pathologies such as cancer, autoimmune disease and neurodegeneration
- Assess factors affecting specific biological processes, such as immune cell activation or stem cell differentiation



Proliferation Assays

Measure label-free growth or growth inhibition and count living cells in real time.



Apoptosis Assays

Detect apoptosis in living cells and in real time using simple mix-and-read protocols.

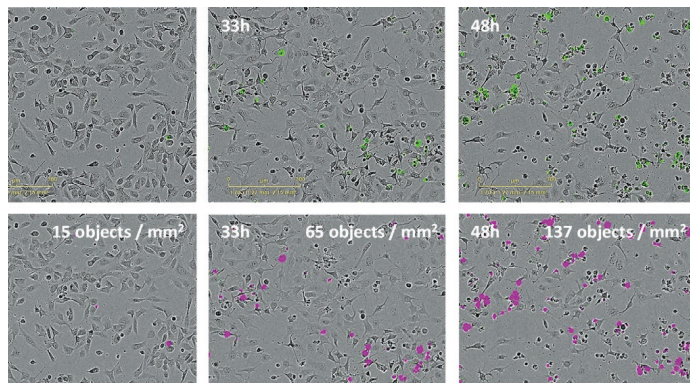


Cytotoxicity Assays

Real-time measurements of cell viability using simple mix-and-read protocols suitable for screening.

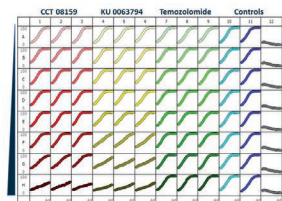
Visualize and validate apoptosis, cytotoxicity, and proliferation with images and movies

- Correlate fluorescent signal from the IncuCyte™ reagents with morphological changes
- Quantify cell health using IncuCyte image analysis tools. User-friendly software enables direct image-based detection over time.

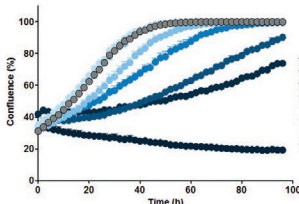


Time lapse images of SK-OV-3 ovarian cancer cell death in response to the anti-cancer drug camptothecin.

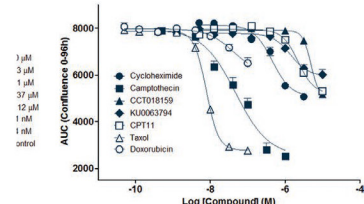
Automatically generate time courses and reveal concentration dependent responses



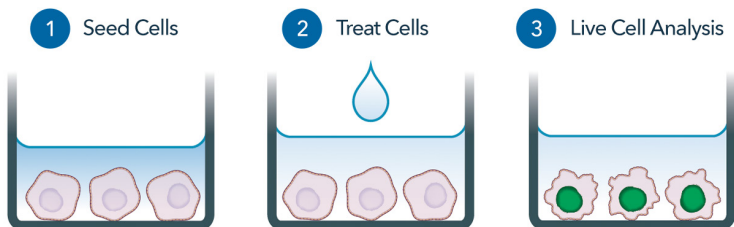
Every well of a 96/384 well plate is imaged and analyzed automatically by the IncuCyte® system to provide a microplate readout of cell proliferation, apoptosis or cytotoxicity over time.



Time-courses reveal concentration-dependent treatment effects.



Transform data into concentration-response curves to compare pharmacology.

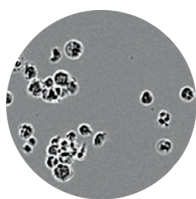


Simple, mix-and-read reagents and protocols—no washing, no fixing, no lifting

- Easy to use—just add reagent and analyze
- Non-perturbing to cell health and morphology
- No sample manipulation after seeding
- IncuCyte protocols reduce time spent optimizing and troubleshooting

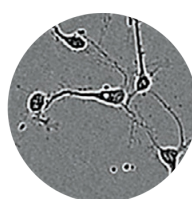
Compatible with your choice of cells

The IncuCyte solution gives you freedom to choose—work with a broad range of cell types and models.



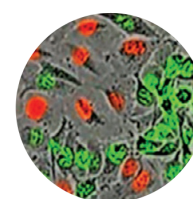
Select your cell type

Adherent and suspension cells



Choose your research area

Neuronal, immune and tumor cells



Explore co-cultures

Tumor and stromal, target and effector cells

Easy and complete cell health workflow with the IncuCyte® system



Simple sample preparation

Mix-and-read 96/384-well protocols—no washing, no fixing, no lifting



Set up & walk away

Setup automated acquisition and analysis parameters with confidence—no need to pre-define the assay endpoint



Measure long term

Flexibility to measure from hours to weeks

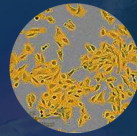


Analyze in real-time

Make decisions about your experiment as the story unfolds

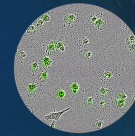
Key cell health applications using the IncuCyte Zoom® live-cell analysis system

Learn more at www.essenbioscience.com/applications



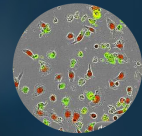
Proliferation

Measure label-free growth or growth inhibition and count living cells in real time.



Apoptosis

Detect apoptosis in living cells and in real time using simple mix-and-read protocols.



Cytotoxicity

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Ordering information

Contact us at sales@essenbio.com to place an order or for more information.

APPLICATION	PRODUCT	QTY	CAT. NO.
Proliferation Label and count living cells in real time	IncuCyte™ NuLight™ Red BacMam 3.0 Reagent	1mL	4621
	IncuCyte™ NuLight™ Green BacMam 3.0 Reagent	1mL	4622
	IncuCyte™ NuLight™ Green Lentivirus Reagent (EF-1 α, Puro)	0.2mL	4624
	IncuCyte™ NuLight™ Red Lentivirus Reagent (EF-1 α, Puro)	0.2mL	4625
	NuLight™ Green Lentivirus (EF-1 Alpha Promoter, Bleomycin)	0.2 mL	4626
	NuLight™ Red Lentivirus (EF-1 Alpha Promoter, Bleomycin)	0.2 mL	4427
	NuLight™ Green Lentivirus (EF-1 Alpha Promoter, Puromycin)	0.6 mL	4475
	NuLight™ Red Lentivirus (EF-1 Alpha Promoter, Puromycin)	0.6 mL	4476
	NuLight™ Green Lentivirus (EF-1 Alpha Promoter, Bleomycin)	0.6 mL	4477
	NuLight™ Red Lentivirus (EF-1 Alpha Promoter, Bleomycin)	0.6 mL	4478
Cytotoxicity Detect and count non-viable cells in real time	IncuCyte™ Cytotox Red Reagent	5 µL x 5	4632
	IncuCyte™ Cytotox Green Reagent	5 µL x 5	4633
Apoptosis Detect and quantify apoptotic cells in real time	IncuCyte™ Caspase 3/7 Reagent	20 µL	4440
	IncuCyte™ Annexin V Red Reagent	1 vial, 100 tests	4641
	IncuCyte™ Annexin V Green Reagent	1 vial, 100 tests	4642