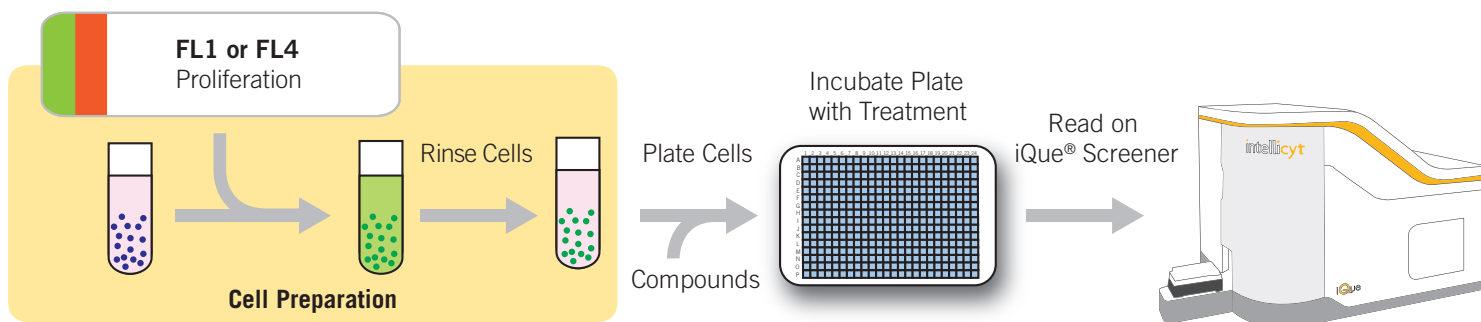


MultiCyt Cell Proliferation Dye Panel

No-wash cell proliferation screening

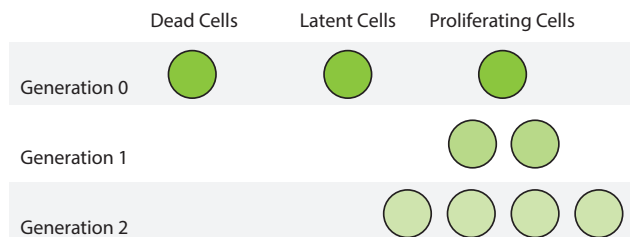
The MultiCyt® Cell Proliferation Dye panel is comprised of two spectrally distinct, proprietary dyes that can be multiplexed together and with other MultiCyt reagents. The proliferation dyes are fluorescent molecules that are cell permeable. Once the dye enters a cell, it binds to intracellular targets. Cell proliferation is detected and quantified through up to nine cell divisions based on the halving or “dilution” of the loaded dye after each round of

cellular division. Multiplexing the dyes enables monitoring of two cell subpopulations within a well. They can be multiplexed with other MultiCyt cell health dyes to simultaneously monitor apoptosis and membrane integrity endpoints. Multiplexing is also possible with MultiCyt QBeads™ to simultaneously monitor proliferation and secreted proteins. See the compatibility chart below.



The assay workflow for Cell Proliferation dyes on IntelliCyt screening systems. Once a master stock of cells are prepared and stained in batch, they can be directly added to assay wells. After the compound treatment and incubation is complete, samples can be directly analyzed without additional wash steps. Run 20 plates in five hours, unattended.

- Easy to use with our no-wash protocol
- Choose dye that fits your biology
- Multiplexes with other MultiCyt reagents



Cell Proliferation dyes function by first staining the cells that will be used in an assay (Generation 0). As cells divide, the dye is equally distributed between daughter cells, halving the fluorescence intensity with each new generation. When assay plates are read on IntelliCyt systems, rapid fluorescence measurements are made on an individual cell basis for each sample.

MultiCyt Cell Proliferation Compatibility			
	FL1	FL4	
Components of MultiCyt 4-Plex Apoptosis Kit	Caspase (FL1)		✓
	Annexin (FL2)	✓	✓
	Cell Viability (FL3)	✓	✓
	Mitochondrial Depolarization (FL4)	✓	
	Cell Cycle (FL3, FL4)	✓	
	QBeads (FL2, FL3, FL4)	✓	✓
	Membrane Integrity (FL1)		✓
	Membrane Integrity (FL3)	✓	✓
	Membrane Integrity (FL4)	✓	
	Proliferation (FL1)		✓
Proliferation (FL4)	✓		

Ordering Information	
Part Number	Description
90354	MultiCyt FL1 Cell Proliferation Dye – 5 x 384 wells
90358	MultiCyt FL4 Cell Proliferation Dye – 5 x 384 wells

Check our website for other configurations.

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