

# New LIVE/DEAD fixable viability dyes— more colors, more choices

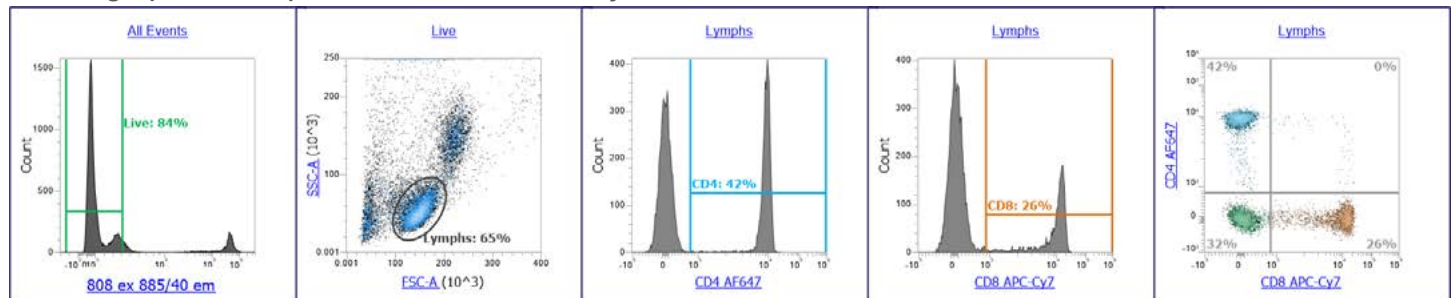
Easily, reliably, and quantitatively distinguish live and dead cells in minutes

The ability to stain live cells with a viability dye and preserve that staining pattern after fixation is critical for immunophenotyping. The exclusion of dead cells from the data allows for more accurate separation and identification of cell populations. Invitrogen™ LIVE/DEAD™ fixable dead cell stains are fixable viability dyes that ensure accurate assessment of cell viability in samples and are compatible with fixation and/or permeabilization. Now, there are more colors for you to choose from, which allows you flexibility when designing multicolored panels.

### New LIVE/DEAD viability dye kits increase options

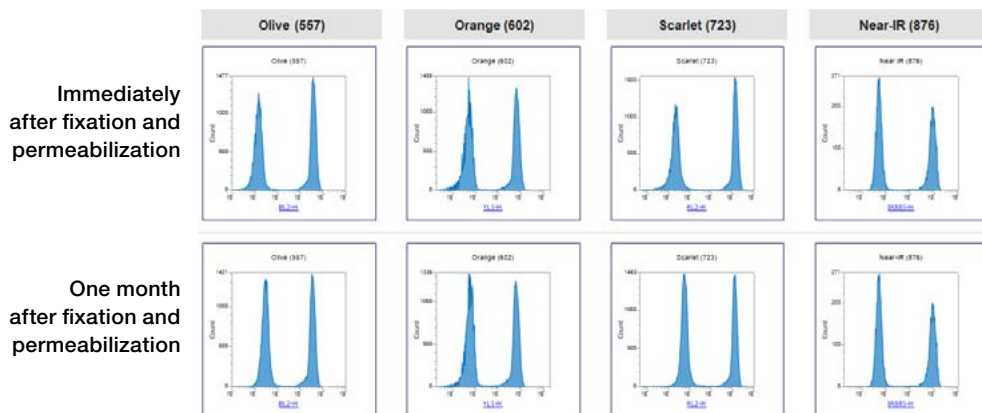
- **Robust**—staining is maintained for multiple weeks and labeled cells can be shipped stained without losing fluorescence signal
- **Choice**—14 different LIVE/DEAD dyes, excited from UV to far IR, and different channels for emissions
- **Accuracy**—new dyes have less spillover and unique spectral signatures so you can build larger panels
- **Unique**—14 novel spectral signatures

### Build high-parameter panels with LIVE/DEAD dyes



**Figure 1. LIVE/DEAD dyes have minimal spillover and allow for larger and more accurate flow cytometry experiments.** Human peripheral blood mononuclear cells (PBMCs) labeled with Invitrogen™ LIVE/DEAD™ Near IR (876) Viability Kit, for 808 nm excitation (Cat. No. L34981); Invitrogen™ CD4 Alexa Fluor 647 (Cat. No. 51-0049-42); and Invitrogen™ CD8 APC-Cyanine7 (Cat. No. A15448). All excited by 808 nm laser.

## Robust labeling provides stable indication of viability



**Figure 2. Signal is well retained over time: label cells now and analyze later.** Maintaining signal is important when access to instruments is limited, shipping to different places is necessary, or longitudinal studies are involved. Using core facilities requires traveling or storing before your appointment. With these reagents, experiments can be stained and will retain fluorescence (we tested up to 31 days). This provides flexibility to label now and analyze later. Cells were washed with PBS + 1% BSA and resuspended in Invitrogen™ eBioscience™ Intracellular Fixation Buffer for 20 minutes.

## Cell viability dyes selection guide

Laser	Ex/Em (nm)	Fixable viability kits	Cat. No.		
			80 assays	200 assays	400 assays
UV	350/450	LIVE/DEAD Fixable Blue (450) Viability Kit, for UV excitation	L34961	L23105	L34962
405 nm	416/451	LIVE/DEAD Fixable Violet (451) Viability Kit, for 405 nm excitation	L34963	L34955	L34964
	405/506	LIVE/DEAD Fixable Lime (506) Viability Kit, for 405 nm excitation	L34989	L34990	L34991
	367/526	LIVE/DEAD Fixable Aqua (526) Viability Kit, for 405 nm excitation	L34965	L34957	L34966
	400/575	LIVE/DEAD Fixable Yellow (575) Viability Kit, for 405 nm excitation	L34967	L34959	L34968
488 nm	495/520	LIVE/DEAD Fixable Green (520) Viability Kit, for 488 nm excitation	L34969	L23101	L34970
	480/557	LIVE/DEAD Fixable Olive (557) Viability Kit, for 488 nm excitation	L34977	L34978	L34979
561 nm	580/602	LIVE/DEAD Fixable Orange (602) Viability Kit, for 561 nm excitation	L34983	L34984	L34985
	595/615	LIVE/DEAD Fixable Red (615) Viability Kit, for 488 or 561 nm excitation	L34971	L23102	L34972
633/5 nm	650/665	LIVE/DEAD Fixable Far Red (665) Viability Kit, for 633 nm excitation	L34973	L10120	L34974
	700/723	LIVE/DEAD Fixable Scarlet (723) Viability Kit, for 633 nm excitation	L34986	L34987	L34988
	750/775	LIVE/DEAD Fixable Near IR (775) Viability Kit, for 633 nm excitation	L34975	L10119	L34976
	750/780	LIVE/DEAD Fixable Near IR (780) Viability Kit, for 633 nm excitation	L34992	L34993	L34994
808 nm	840/876	LIVE/DEAD Fixable Near IR (876) Viability Kit, for 808 nm excitation	L34980	L34981	L34982

## Ordering information

Product	Cat. No.
LIVE/DEAD Fixable Dead Cell Stain Sampler Kit	L34960
ArC Amine Reactive Compensation Bead Kit (for use with LIVE/DEAD Fixable dead cell stain kits)	A10346

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