

# Viability Dyes

Dead cells bind dyes non-specifically, are sticky, and frequently are autofluorescent. These problems can create false or “ghost” populations and may skew the quantitation of your population of interest.

The following traditional viability dyes are non-fixable. Add 1-2 ug/ml of sample.

Dye	Excitation Laser	Emission
Propidium Iodide	UV/blue/green	617
DAPI	UV/violet	455
7AAD	Blue/green/yellow	660
TO-PRO-3	red	660

Fixable live/dead dyes are also available. These dyes are available in a wide range of colors. They are also not as bright as the traditional dyes, which makes them easier to compensate in multi-color assays.

Dye	Manufacturer
Live/Dead Fixable Blue/Violet/Aqua/Green/Yellow/Red/Far Red	Invitrogen
Fixable Viability Dye eF450/eF660/eF780	eBioscience
BD Horizon VD450	BD
Zombie Dyes UV/Violet/Yellow/Green/Red/NIR	BioLegend