

Protocol for Staining Dead Cells with Viability Dyes

The Viability Dyes can be used to exclude non-viable cells in flow cytometry assays. They irreversibly bind to cell surface and intracellular amines. The dye can covalently bind to a higher concentration of amines in cells that have lost plasma membrane integrity, such as those in the late stages of apoptosis or dead cells, and generate a significantly more intense fluorescence signal. Dead dells stained with the viability dye will maintain their staining intensity after washing, fixation, permeabilization, or additional intracellular staining.

- Allow vial of Viability Dye to equilibrate to room temperature and quickly spin before use.
- 2. Wash cells twice in PBS solution free of azide, serum or protein.
- 3. Resuspend cells in azide, serum, and protein free PBS at a concentration of 1-10x106/mL.
- 4. Add 1 μL of Fixable Viability Dye per 1 mL of cells and vortex immediately.
- 5. Incubate the cells for 30 minutes protected from light at 2-8 °C.
- 6. Wash the cells with flow staining buffer or equivalent.
- 7. Cells are ready to be stain, fixed, and permeabilized as desired.