

## ViaDye™ Violet Fixable Viability Dye Kit

PRODUCT DETAILS	
Catalog number:	R7-60009 (Up to 1000 Tests)
Category:	Fixable viability dye
Format:	ViaDye Violet*
Application:	Flow cytometry
Formulation:	Lyophilized
Storage:	-35°C to -10°C and protected from light. Avoid repeated freeze-thaw cycles

### PRODUCT DESCRIPTION

ViaDye Violet Fixable Viability Dye is recommended for dead cell discrimination. It is an amine reactive dye that is impermeable to live cells<sup>(1)</sup>. Dead cells, with their compromised plasma membranes, will preferentially take up the dye. The reactive nature of the dye allows for forming covalent linkages to intracellular proteins. The ViaDye Violet Fixable Viability Dye is compatible with fix/perm protocols.

### RECOMMENDED USAGE

The ViaDye Violet Fixable Viability Dye kit is composed of lyophilized ViaDye Violet Fixable Viability Dye and anhydrous DMSO. To reconstitute the dye, bring the kit to room temperature, add 100 µL of DMSO to one vial of the dye, and mix well to ensure that all the dye is in solution. Aliquots of reconstituted dye can be stored at ≤ -20°C in a dry location, preferably in a desiccator, and protected from light for up to 1 month. It is recommended that the aliquots not exceed one freeze-thaw cycle.

The reconstituted dye may be diluted at a 1:1000 in PBS immediately before use, and 1000 µL of the diluted dye can be used to resuspend a cell pellet containing 1-2 million cells.

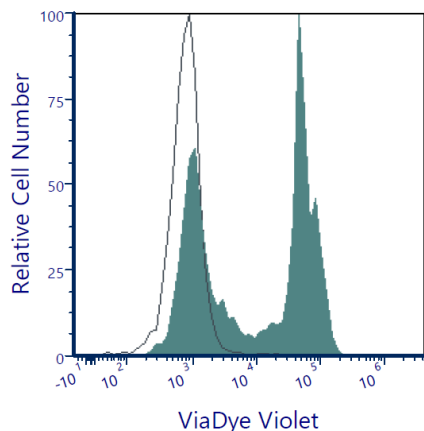
**Note: It is recommended that users titrate the reagent to obtain the optimal result for their specific applications, as the optimal concentration varies with different cell types.**

**Note: Cells to be stained with ViaDye Violet Fixable Viability Dye need to be washed and resuspended in protein-free PBS prior to staining.**

### STAINING PROTOCOL

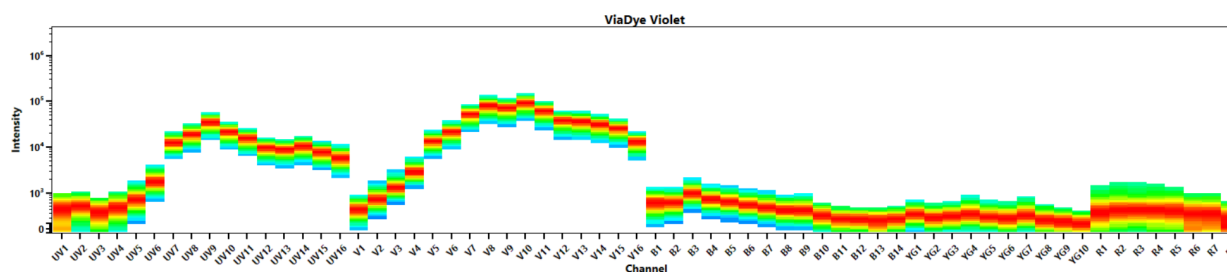
1. Wash cells with protein-free PBS
  2. Prepare diluted dye at a 1:1000 dilution in protein-free PBS
  3. Resuspend cells in 1000 µL of diluted dye
  4. Incubate for 20 minutes at room temperature, in the dark
  5. Wash once with PBS or with FACS Stain buffer, e.g. 0.2% BSA in PBS, pH7.4
- Cells are ready for downstream staining or applications

## PRODUCT DATA



Mouse splenocytes were mixed with heat-killed splenocytes and stained with ViaDye Violet Fixable Viability Dye (filled histogram). Unstained mouse splenocytes are shown in open histogram.

Spectral signature of ViaDye Red from a Cytex® Aurora 5 Laser System using CytexAssaySetting



## REFERENCE

1. Perfetto SP, et al. 2010 Curr Protoc Cytom. 53:9.34.1

**For Research Use Only. Not intended for use in diagnostic procedures.**

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