

CytoPhase™ Violet

Catalog# / Size	425701 / 200 µL
Regulatory Status	RUO
Other Names	live cell cycle
Description	CytoPhase™ Violet is a cell-permeant DNA-binding dye with the molecular weight of 560.96D and can be excited by either UV (355 nm or 375 nm) or violet laser (405 nm). Its emission maximum wavelength is about 440nm. It can be used for flow cytometric analysis of cell cycle in live or fixed cells. This dye can also be used for counterstaining the nuclei of cells in fluorescent microscopic imaging.

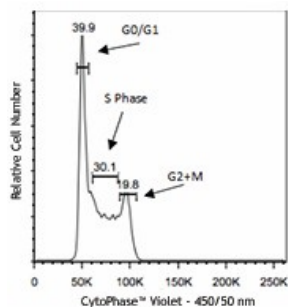
Product Details

Formulation	5mM solution in H ₂ O (200 µl/vial)
Concentration	5.0 mM
Storage & Handling	Upon receipt, CytoPhase™ Violet should be stored at 4°C and protected from light.
Application	FC - Quality tested
Recommended Usage	The recommended usage concentration for CytoPhase™ Violet is 5µM - 10µM.
Application Notes	Prepare cells of interest in appropriate cell culture media at a concentration of 0.5-1x 10 ⁶ cells /ml. Add CytoPhase™ Violet dye to the cell suspension to bring it to 5µM (1:1000)-10µM (1:500) working solution and incubate for 90 minutes at 37°C (CO ₂ incubator). Optimal concentration might require titration of the dye based on differing cell types. Transfer cells to a FACS tube (cells do not require a wash step) and acquire samples on a flow cytometer equipped with a violet laser. CytoPhase™ Violet can be used concurrently with antibody staining procedures.

Antigen Details

Distribution	Nucleus, DNA.
Biology Area	Cell Biology, Cell Cycle/DNA Replication, Cell Proliferation and Viability
Gene ID	NA

Product Data



Ramos cells treated with 5µM CytoPhase™ Violet dye for 90 minutes at 37°C. Cells were then acquired on a flow cytometer equipped with a 405 nm laser with a 450/50 bandpass filter.

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