

# Viability/Cytotoxicity Assay Kit for Animal Live & Dead Cells (Calcein AM, EthD-1 Method)

Catalog Number: PF00008

## Description

Viability/Cytotoxicity Assay Kit for Animal Live & Dead Cells (Calcein AM, EthD-1 method) provides dual fluorescence staining for the detection of living and dead cells. The two probes in the kit effect cell viability by measuring intracellular esterase activity and plasma membrane integrity. This kit can be used for fluorescence microscopes, flow cytometers, microplate readers and other fluorescence detection systems.

This kit can be used for most eukaryotic mammalian samples, but not to fungi and yeast.

## Product Information

Components	150T	300T
A. Calcein AM (4 mM in anhydrous DMSO)	50 uL	100 uL
B. Ethidium homodimer-1 (EthD-1) (2 mM in DMSO/H <sub>2</sub> O 1:4 (v/v))	150 uL	300 uL

Note: The test size is determined as 0.5 mL working solution for one sample in flow cytometry.

## Package

150T/300T

## Storage

Store at -20°C. Avoid exposure to light. Stable for 24 months after shipment.

## Spectrum

Calcein AM Ex/Em = 494/517 nm

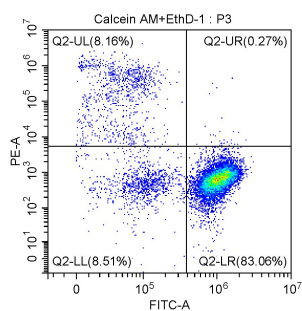
EthD-1: Ex/Em = 528/617 nm (binding DNA)

## Cautions

Note that Calcein M is easy to hydrolyze, so it needs to be sealed and stored dry, and the diluted working solution needs to be prepared the same day.

1. Fluorescent dyes all have quenching problems. Please try to avoid light during storage and use to slow down fluorescence quenching.
2. For your safety and health, please wear lab coats and disposable gloves for operation.

## Validation Data



**Figure 1. Flow cytometry of Jurkat cells stained with Calcein AM, EthD-1.** Q2-UL Cell Group with Calcein AM-, EthD-1 + (dead cells) Q2-LL Cell Group with Calcein AM-, EthD-1 - (cell debris) Q2-LR Cell Group with Calcein AM +, EthD-1 - (live cells).

For technical support and original validation data for this product please contact

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