CREATIVE BIOMART®
Assay Kit

Live/Dead Cell Imaging Kit

Product Information

Common Name

Cell

Cat.No. Kit-2167

Product Overview

The Live/Dead Cell Imaging Kit is a sensitive two-color fluorescence cell viability assay optimized for FITC and Texas Red® filters. Quick and easy to use, the kit allows discrimination between live and dead cells with two probes that measure recognized parameters of cytotoxicity and cell viability—intracellular esterase activity and plasma membrane integrity.

Description

The Live/Dead Cell Imaging Kit is based on a cell-permeable dye for staining of live cells and a cell-impermeable dye for staining of dead and dying cells, which are characterized by compromised cell membranes. To adapt this important assay for imaging platforms, the Live/Dead Cell Imaging Kit components were optimized for the common green and red imaging filters used with FITC and Texas Red®. The live cell component produces an intense, uniform green fluorescence in live cells (ex/em 488 nm/515 nm). The dead cell component produces a predominantly nuclear red fluorescence (ex/em 570nm/602 nm) in cells with compromised cell membranes, a strong indicator of cell death and cytotoxicity.

Storage

Store at -20°C

Shipping

Dry Ice

Synonyms

Cell Imaging Kit

Kit Components

Component A: 10 x 1mL vials;

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Component B: 1 x 10 vials, dried down

Materials Required but Not Supplied

Fluorescence microscope with FITC and TRITC filters

Detection method Fluorescent

Features & Benefits

- Accuracy with convenience
- Sensitive probes ideal for FITC and Texas Red® filters

Assay Protocol

1. Culture cells in appropriate medium and vessel for microscopy
2. Thaw vials
3. Transfer Live Green vial (A) into Dead Red vial (B)
4. Mix to create 2X stock
5. Add equal volume 2X stock to cells
6. Incubate 15 min at 20–25°C
7. Image cells

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