

## Calcein AM Cell Viability Assay Kit (Fluorometric)

Cat. No. Kit-1114    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

**Description**

Quantification of number of viable cells is an indispensable tool in Cell Biology research. Calcein AM Cell Viability Assay Kit is a fluorometric method for extremely sensitive quantification of viable cells that can detect as low as 50 viable cells in less than 30 min. Calcein AM is a non-fluorescent, hydrophobic compound that easily penetrates intact and; Live cells. Hydrolysis of Calcein AM by intracellular esterase produces a hydrophilic, strongly fluorescent compound that is retained in the cell cytoplasm and can be measured at Ex/Em = 485/530 nm. The measured fluorescence intensity is proportional to the number of viable cells. This assay kit provides an easy-to-use, non-radioactive, and high-throughput method for cell proliferation, cell viability, chemotaxis, cytotoxicity and apoptosis.

**Applications**

Measurement of cell proliferation in response to growth factors, cytokines, mitogens and nutrients

Analysis of cytotoxic and cytostatic compounds such as anticancer drugs, toxic agents and other pharmaceuticals

Assessment of physiological mediators and antibodies that affect cell growth.

**Storage**                      -20°C

**Shipping**                     Gel Pack

**Size**                            1000 assays

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|                                |                                                                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Kit Components</b>          | Calcein AM; Calcein Dilution Buffer                                                                                                                                                                                     |
| <b>Detection method</b>        | Fluorescence (Ex/Em = 485/530 nm)                                                                                                                                                                                       |
| <b>Features &amp; Benefits</b> | Convenient & non-radioactive;<br>High-throughput;<br>Highly-sensitive: detect as low as 50 viable cells in less than 30 min.<br>Suitable for cell proliferation, cell viability, chemotaxis, cytotoxicity and apoptosis |

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