CREATIVE BIOMART®
Assay Kit

Cell Viability Assay Kit

Product Information

Cat

Kit-2503

Cat.No. Kit-2503

Product Overview

This homogeneous assay involves simply adding a single reagent, the Blue reagent, to the cell culture and measuring the fluorescence intensity (excitation wavelength = 530 - 570 nm, emission wavelength = 590 - 620 nm) after an incubation step. The Blue reagent, like other resazurin-based assays such as the Alamar Blue reagent, utilizes the redox dye resazurin which is not fluorescent, but upon reduction by metabolically active cells is converted into a highly fluorescent product (resorufin). Living cells can readily reduce this non-toxic reagent and the resulting increase in fluorescence intensity can be conveniently monitored using a fluorescence spectrophotometer or plate reader. Nonviable cells have no metabolic capacity and, thus, will not reduce the dye. Therefore, the fluorescence intensity observed in this assay is a true measure of the viable cells. The Blue reagent has been optimized for maximum sensitivity, reproducibility and long shelf-life. The homogeneous cell-based assay can be performed in multi-well plates. The reagent is compatible with all culture media and with all liquid handling systems for high-throughput screening applications in 96-well and 384-well plates. Applications include cell proliferation, cytotoxicity and apoptosis.

Storage

4°C

Shipping

RT

Size

5000 tests

Detection method FL530/590nm

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Compatible Sample Types
Cell culture
Features & Benefits
Safe. Non-radioactive assay (cf.3H-thymidine incorporation assay). Sensitive and accurate. As low as 100 cells can be accurately quantified. Time efficient. High-throughput assay in 96-well and 384-well plates allows simultaneous processing ten of thousands of samples per day. Homogeneous and convenient. A single reagent and "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Robust and amenable to HTS. Z factors of 0.6 to 0.9 are routinely observed in 96-well and 384-well plates. Can be readily automated on HTS liquid handling systems.
Assay time
1-5 hrs
Sensitivity
100 cells

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