CREATIVE BIOMART®
Assay Kit

Neutral Red Cell Cytotoxicity Assay Kit

Product Information

Cat

Kit-2256

Cat.No. Kit-2256

Product Overview

Neutral red cell cytotoxicity assay is one of the common methods used to detect cell viability or drug cytotoxicity. The principle of this assay is based on the detection of viable cells via the uptake of the dye neutral red. Neutral red is a eurhodin dye that stains lysosomes in viable cells. Viable cells can take up neutral red via active transport and incorporate the dye into their lysosomes but non-viable cells cannot not take up this chromophore. Consequently, after washing, viable cells can release the incorporated dye in under acidified-extracted conditions. The amount of released dye can be used to determine the total number of viable cells or drug cytotoxicity. The neutral red uptake assay provides a quantitative measurement of the number of viable cells and can be measured at OD 540 nm. Neutral Red Cell Cytotoxicity Assay Kit is simple, accurate, and reproducible. It also includes Doxorubicin, as a positive control. This kit offers an excellent and efficient method for in vitro cytotoxicity studies as well as high-throughput drug screening that can detect between 5,000-50,000 cells per well.

Applications

This assay provides a convenient and non-radioactive alternative to carry out cytotoxicity assays. This assay relies on the ability of neutral cells to stain lysosomes of viable cells.

Storage

-20°C

Shipping

Gel Pack

Size

1000 assays

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Kit Components
100X Neutral Red Staining Solution; 10X Washing Solution; 2X Solubilization Solution; 20 mM Doxorubicin
Target Species
Mammalian
Detection method Detection method- Absorbance (540 nm)
Features & Benefits
Simple procedure; takes less than 2 hours; Fast, sensitive and convenient

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