Neutral Red Cell Cytotoxicity Assay Kit

Cat. No. Kit-2256 **Lot. No.** (See product label)

SPECIFICATION

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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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