

MTT-Cell Based Proliferation/Toxicity Assay Kit | MTT assay kit

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CATALOG #
AAA249418

PRODUCT SYNONYMS

MTT-Cell Based Proliferation/Toxicity; MTT-Cell Based Proliferation/Toxicity Assay Kit; MTT assay kit

PRODUCT SPECIFICATIONS

Samples

MTT is carcinogenic. Avoid direct contact. Use gloves and eye protection

ADDITIONAL INFORMATION

Related Product Information for MTT assay kit

Background: Measurement of cell viability and proliferation forms the basis for numerous in vitro assays of a cell population's response to external factors. The reduction of tetrazolium salts is now widely accepted as a reliable way to examine cell proliferation. The key substrate of the kit is:3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyl tetrazolium bromide or MTT. MTT is a yellowish solution when dissolved in balanced salt solutions without phenol red and is taken up by cells due to its net positive charge. The tetrazolium ring of MTT (yellow) is reduced to purple formazan crystals by intracellular NAD(P)H-oxidoreductases. The formazan crystals are insoluble in aqueous solution, but become solubilized in the provided solubilization Buffer. After solubilization, the resulting purple solution is spectrophotometrically measured. The MTT Cell Proliferation Assay measures the cell proliferation rate and conversely, when metabolic events lead to apoptosis or necrosis, the reduction in cell viability. The number of assay steps has been minimized as much as possible to expedite sample processing. The MTT solution yields low background absorbance values in the absence of cells. For each cell type the linear relationship between cell number and signal produced is established, thus allowing an accurate quantification of changes in the rate of cell proliferation.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/assay-kits/mtt-cell-based-proliferation-toxicity/249418>