

## MTT Cell Proliferation Assay Kit (Colorimetric)

Cat. No. Kit-1067 Lot. No. (See product label)

### SPECIFICATION

<b>Description</b>	<p>Quantification of the number of viable cells is an indispensable tool in cell biology research. MTT Cell Proliferation Assay Kit is a sensitive method for quantification of viable cells in proliferation and cytotoxicity assay. The method is based on the conversion of water soluble MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide) compound to an insoluble formazan product. Viable cells with active metabolism convert MTT into formazan, however, dead cells lose this ability. Thus color formation serves as a useful and convenient marker of only the viable cells. The measured absorbance (590 nm) 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.</p>
<b>Applications</b>	<p>Measurement of cell proliferation in response to growth factors, cytokines, mitogens and nutrients.</p> <p>Analysis of cytotoxic and cytostatic compounds such as anticancer drugs, toxic agents and other pharmaceuticals.</p> <p>Assessment of physiological mediators that inhibit cell growth.</p>
<b>Storage</b>	-20°C
<b>Shipping</b>	Gel Pack
<b>Size</b>	1000 assays
<b>Kit Components</b>	MTT Reagent; MTT Solvent

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**Detection method** Absorbance (490 nm)

**Features & Benefits** Non-radioactive;  
High-throughput;  
The entire assay can be performed directly in a 96-well plate and does not require washing/harvesting/or solubilization steps.

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