# MTT Cell Proliferation Assay Kit (Colorimetric)

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

## SPECIFICATION

| Product Overview | |
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| **Description** | 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. |
| **Applications** | Measurement of cell proliferation in response to growth factors, cytokines, mitogens and nutrients.<br>Analysis of cytotoxic and cytostatic compounds such as anticancer drugs, toxic agents and other pharmaceuticals.<br>Assessment of physiological mediators that inhibit cell growth. |
| **Storage** | -20°C |
| **Shipping** | Gel Pack |
| **Size** | 1000 assays |

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| **Kit Components** | MTT Reagent; MTT Solvent |
| **Detection method** | Absorbance (490 nm) |
| **Features & Benefits** | Non-radioactive;<br>High-throughput;<br>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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