CREATIVE BIOMART®
Assay Kit

# Cell Proliferation Assay Kit

## Product Information

**Cat.No.** Kit-0198

**Product Overview**

Cell Proliferation Assay Kit is a colormetric quantification of cell proliferation and viability.

**Description**

The Cell Proliferation Assay Kit provides all reagents and detailed instructions for a fast and sensitive quantification of cell proliferation and viability. The assay is based on the cleavage of the tetrazolium salt WST-1 to formazan by cellular mitochondrial dehydrogenases. Expansion in the number of viable cells resulted in an increase in the activity of the mitochondrial dehydrogenases, which leads to the increase in the amount of formazan dye formed. The formazan dye produced by viable cells can be quantified by multi-well spectrophotometer (microtiter plate reader) by measuring the absorbance of the dye solution at 440 nm. The assay can be used for the measurement of cell proliferation in response to growth factors, cytokines, mitogens, and nutrients, etc. It can also be used for the analysis of cytotoxic compounds like anticancer drugs and many other toxic agents and pharmaceutical compounds. The new method is so simple, requiring no washing, no harvesting, and no solubilization steps, and is faster and more sensitive than MTT, XTT, or MTS-based assays. The entire assay can be performed in a microtiter plate.

**Target Species**

Mammals

**Usage**

For research use only (RUO)

**Storage**

Store the kit at -20°C.

**Kit Components**

WST-1 Reagent (lyophilized) 1 vialElectrocoupling Solution (ECS) 5 ml

**Detection method** Colorimetric

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## Compatible Sample Types

Cell Culture, Tissue

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