



### CellQuanti-MTT™ Cell Viability Assay Kits

The CellQuanti-MTT™ Assay Kits provide a reliable assay for determining the number of living cells in a given culture. This homogeneous colorimetric assay is based on the conversion of MTT to purple formazan dye by living cells. A solubilization buffer is added to dissolve the formazan product. The absorbance at 550 nm - 620 nm, measured on an absorbance reader, is directly proportional to the number of living cells.

#### APPLICATIONS:

**Cell proliferation:** effects of growth factors, cytokines and nutrients on cell growth and proliferation [1].

**Evaluation of cytotoxic agents:** effects of cell-mediated toxicity, antibiotics, cytotoxic chemicals and anti-cancer drugs (small molecules and antibodies) [1].

**High-throughput screen for antibiotics and anti-cancer compounds:** screening of antibiotics and anti-cancer drugs from compound libraries can be performed in 96-well [2].

#### KEY FEATURES:

**Safe:** non-radioactive assay (cf. <sup>3</sup>H-thymidine incorporation assay).

**Sensitive and accurate:** as low as 950 cells can be accurately quantified.

**Saves time:** high-throughput assay using 96-well plates allows simultaneous processing of a large number of samples.

**Homogeneous and convenient:** "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved.

**Robust and amenable to HTS:** Z' factors of 0.5 and above are observed. Can be readily automated on HTS liquid handling systems.

#### PRODUCT INFORMATION:

### CellQuanti-MTT™ Cell Viability Assay Kit

CQMT-500

Each kit is sufficient for 500 assays in 96-well plate. Kit includes:

- 1 vial CellQuanti-MTT™ Reagent
- 1 x 10mL Assay Buffer
- 1 x 50mL Solubilization Buffer

To be ordered separately:

- 1 vial 50mg cytotoxicity control reagent (CTTX-050).

### CellQuanti-MTT™ Cell Viability Assay Kit

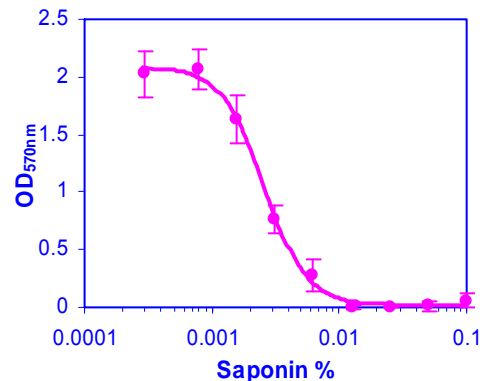
CQMT-01K

Each kit is sufficient for 1,000 assays in 96-well plate. Kit includes:

- 1 vial CellQuanti-MTT™ Reagent
- 1 x 20mL Assay Buffer
- 1 x 100mL Solubilization Buffer

To be ordered separately:

- 1 vial 50mg cytotoxicity control reagent (CTTX-050)



Dose-dependent cytotoxicity of saponin in HEK293 cells. Assay was performed in a 96-well plate.

#### REFERENCES:

[1]. Bezin C et al (2003) Cytotoxic activity of some lichen extracts on murine and human cancer cell lines. *Phytomedicine* 10:499-503.

[2]. Ren DC et al (2003) High throughput screening for intercellular adhesion molecule-1 inhibitor. *Yao Xue Xue Bao*. 38:405-408.