



CellQuanti-Blue™ Cell Viability Assay Kits

This homogeneous fluorescent assay is based on the conversion of the redox dye resazurin to a highly fluorescent product resorufin by living cells. The assay involves addition of a single reagent to test cells and measures the fluorescence intensity (excitation at 530nm - 570nm, emission 590nm - 620nm) after an incubation step.

APPLICATIONS:

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

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

High-throughput screening for antibiotics and anti-cancer compounds: screening of antibiotics and anti-cancer drugs from compound libraries can be performed in 96-well, 384-well and 1536-well microplates [2].

KEY FEATURES:

Safe: non-radioactive assay (cf. ³H-thymidine incorporation assay).

Sensitive and accurate: as low as 100 cells can be accurately quantified.

Saves time: high-throughput assay in 96-well and 384-well plates allows simultaneous processing of thousands of samples per day.

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

Robust and amenable to HTS: Z' factors of 0.6 to 0.8 are routinely observed in 96-well and 384-well plates. Can be readily automated on HTS liquid handling systems.

PRODUCT INFORMATION:

CellQuanti-Blue™ Cell Viability Assay Kit CQBL-05K

Each kit is sufficient for 5,000 assays in 96-well plate (or 20,000 assays in 384-well plate). Kit includes:

- 1 x 50mL CellQuanti-Blue™ Reagent

To be ordered separately:

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

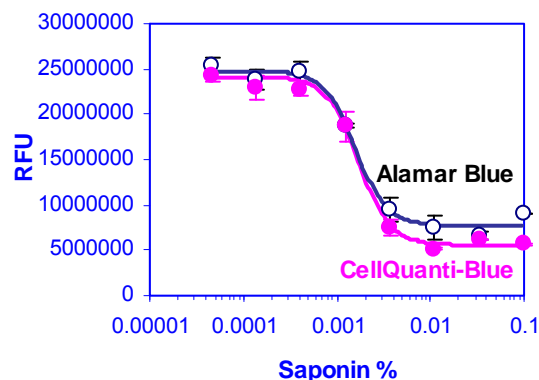
CellQuanti-Blue™ Cell Viability Assay Kit CQBL-10K

Each kit is sufficient for 10,000 assays in 96-well plate (or 40,000 assays in 384-well plate). Kit includes:

- 1 x 100mL CellQuanti-Blue™ Reagent

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 384-well plate.

REFERENCES:

[1]. Nociari MM et al (1998) A novel one-step, highly sensitive fluorometric assay to evaluate cell-mediated cytotoxicity. *J Immunol Methods*. 213(2):157-167.

[2]. Mikus J and Steverding D (2000) A simple colorimetric method to screen drug cytotoxicity against *Leishmania* using the dye Alamar Blue. *Parasitol Int*. 48(3):265-269.

