Signosis
Innovative Plate Assay Solutions

Cell Viability Cytotoxicity (CVC) Reagent

Catalog Number CVC-000X **(For Research Use Only)**

Introduction

Signosis' Cell Viability/Cytotoxicity (CVC) Reagent is a colorimetric WST-8 based assay that provides a simple and accurate method to measure cell proliferation. This is a tetrazolium reduction assays based on the cleavage of the tetrazolium salt WST-8 to water-soluble, orange formazan dye by cellular mitochondrial dehydrogenases. Intensity of dye is a direct proportion of increased activity of the mitochondrial dehydrogenases and therefore number of viable cells which can be quantified by measuring the absorbance at 450 nm.

Materials provided with the kit

- 1 ml (CVC-0001) or 5 ml (CVC-0005) of Cell Viability Cytotoxicity (CVC) Reagent.
    - Store at 4°C.

Material required but not provided

- 96 well plate
- Plate reader (450 nm filter)
- CO_2 incubator
- Multi-channel pipettes

Assay Procedure

1. The day before performing the assay, trypsinize the cells and seed each well of a 96 well plate with around 1-5 x 10^4 cells in 100µl medium.
2. Incubate the plate in a humidified incubator at 37°C with 5% CO_2 overnight.
3. If not testing substances, skip to step 4. Otherwise, add 10 µl of each substance at various concentrations to each well and incubate as appropriate for your substances.
4. Carefully add 10 µl of CVC reagent to each well.
   Note: Do not introduce bubbles to the wells, this will affect the readings.
5. Incubate the plate in a humidified incubator at 37°C with 5% CO_2 for 1-3 hours.
6. Measure the absorbance at 450nm in a microplate reader.