

SRB Cytotoxicity Assay (Sulforhodamine B)



Ordering info:

| Cat No. | Size |
|---------|--------------|
| CA050 | 1,000 assays |

Includes for 1,000 assays:

- 0.4 g SRB Dye
- 60 mL Fixative Reagent
- 100 mL Dye Wash Solution (10x)
- 200 mL SRB Solubilization Buffer



Related Products:

- XTT Cell Proliferation Assay Kit (p.78)
- Resazurin Cell Viability assay (p.79)

Description:

Sulforhodamine B (SRB) Cytotoxicity Assay is a sensitive, reproducible and easy-to-use assay based on the ability of SRB to bind to protein components of cells that have been fixed to tissue culture plates. SRB is a bright-pink aminoxanthene dye with two sulfonic groups that bind to basic amino acid residues under mild acidic conditions and dissociate under basic conditions. As the binding of SRB is stoichiometric, the amount of dye extracted from stained cells is directly proportional to the cell mass.

The fixed dye is solubilized and is measured photometrically at OD 540 nm with a reference filter of 690 nm. The OD values correlate with total protein content and therefore with cell number.

Advantages & Features:

- ✓ Sensitive.
- ✓ Easy-to-use.
- ✓ Fast: avoids time-sensitive measurement.
- ✓ Reproducible.
- ✓ Great linearity.
- ✓ Good signal-to-noise ratio.
- ✓ Has a stable end-point.

Applications:

- ✓ Detection of cell toxicity, death, viability or proliferation.
- ✓ High throughput screening.

Resazurin Cell Viability Assay



Ordering info:

| Cat No. | Size |
|---------|---------------|
| CA035 | 10,000 assays |

Includes for 10,000 assays:

- 4 x 25 mL Resazurin solution



Related Products:

- XTT Cell Proliferation Assay Kit (p.78)
- SRB Cytotoxicity assay (p.79)

Description:

Resazurin Cell Viability Assay is a reliable, sensitive and easy-to-use fluorescent assay that detects cellular metabolic activity. Resazurin (7-Hydroxy-3H-phenoxazin-3-one 10-oxide) is a blue dye non-fluorescent until it is irreversibly reduced to the pink colored and highly red fluorescent resorufin by dehydrogenase enzymes in metabolically active cells.

The fluorescent signal is monitored using 530-560 nm excitation wavelength and 590 nm emission wavelength. The absorbance is monitored at 570 nm and 600 nm. The fluorescent or colorimetric signal generated from the assay is proportional to the number of living cells in the sample.

Advantages & Features:

- ✓ Easy procedure: easy to perform with minimal handling.
- ✓ Really fast: just one step to results.
- ✓ Reliable.
- ✓ Sensitive.
- ✓ Safe.
- ✓ Cost-effective.

Applications:

- ✓ Spectrophotometric measurement of metabolic activity of living cells.

