

IN CYTOTOX

XTT - SRB



APPLICATIONS

Combined colorimetric assays for the quantification of the mitochondrial activity and total protein synthesis rate of cells in response to pharmaceutical, chemical and environmental compounds, and nutrients.

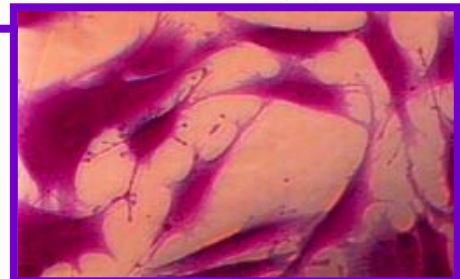
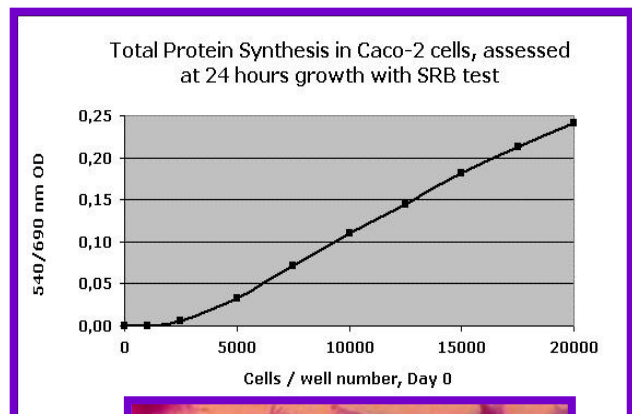
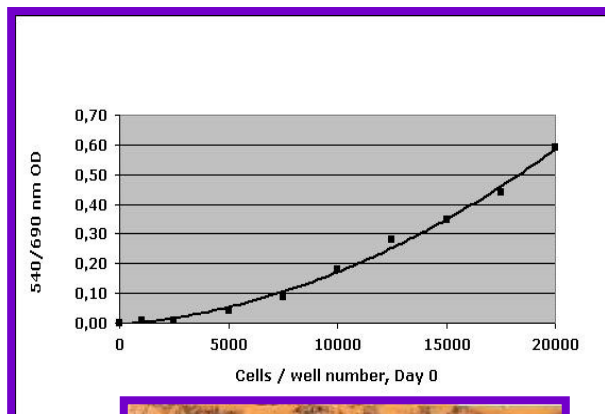
PRINCIPLE

This kit allows to measure sequentially two cytotoxicity parameters in one single cell culture: Mitochondrial activity (**XTT: Tetrazolium Hydroxide**) and total protein synthesis rate (**SRB: Sulforhodamine B**).

XTT is reduced in the cells to formazan by mitochondrial succinate dehydrogenase. The reduction rate is measured and correlates with mitochondrial activity. The fixed SRB dye, measured photometrically after solubilization, correlates with total protein synthesis rate and therefore with cell proliferation.

BIOLOGICAL PARAMETERS EVALUATION

- IC₅₀ (Inhibitory Concentration 50%)
- Respiratory chain activity
- Total protein synthesis
- Cell proliferation



TECHNICAL SPECIFICATIONS

- Absorbance:**
- XTT: 480 (optimum) or 450 nm
 - SRB: 540 nm
(Recommended reference filter: 690 nm)
- Approximate assay time (total):**
- 5 h 20 min + time to dry the microtiter plate
- Available kit configurations:**
- Reagents only
 - Reagents and 96-well microplates, sterile reagent reservoirs
- XTT - SRB Kit content:**
- Substrate solution
 - Buffer solution
 - Labeling solution
 - Rinsing solution
 - Solubilization solution
 - Instruction Manual

XTT - SRB KIT SIZES AND REFERENCE NUMBERS

REFERENCE NO.	NUMBER OF TESTS
AKXSR96.300	2 x 300
AKXSR96.1200	2 x 1200

Kits with plasticware (microplates and reservoirs) are also available.
Individual reagents and other kit sizes available upon request.

Version 1.5 01/2007

Distributed by:

ANIARA

Manufactured By: Xenometrix AG