

IN CYTOTOX

XTT - PAC



APPLICATIONS

Combined colorimetric assays for the quantification of the mitochondrial and lysosomal activities of cells in response to pharmaceutical, chemical and environmental compounds, and nutrients.

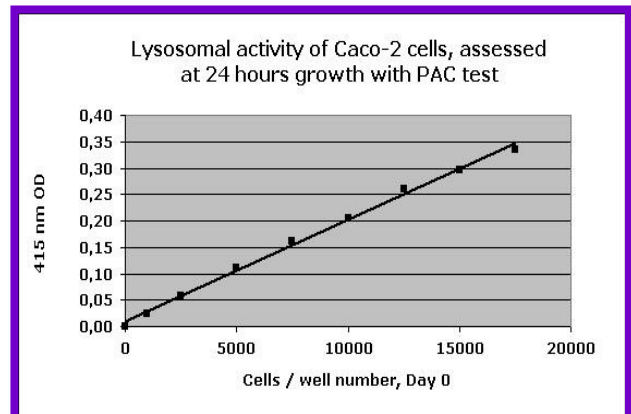
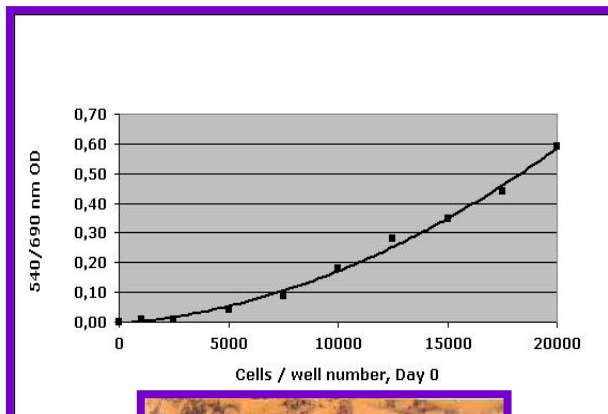
PRINCIPLE

This kit allows to measure sequentially two cytotoxicity parameters in one single cell culture: Mitochondrial activity (**XTT: Tetrazolium Hydroxide**) and lysosomal activity (**PAC: Acid Phosphatase**).

XTT is reduced in the cells to formazan by mitochondrial succinate dehydrogenase. The reduction rate is measured and correlates with mitochondrial activity. Intracellular PAC activity is an indicator for lysosomal activity.

BIOLOGICAL PARAMETERS EVALUATION

- IC₅₀ (Inhibitory Concentration 50%)
- Respiratory chain activity
- Lysosomal activity



TECHNICAL SPECIFICATIONS

- Absorbance:**
- XTT: 480 (optimum) or 450 nm
 - PAC: 405 nm
- Approximate assay time (total):**
- 5 hr 40 min
- Available kit configurations:**
- Reagents only
 - Reagents and 96-well microplates, sterile reagent reservoirs
- XTT - PAC Kit content:**
- Substrate solutions and dry substrate
 - Buffer solution
 - Wash solution
 - Lysis solution
 - Stop solution
 - Instruction manual

XTT - PAC KIT SIZES AND REFERENCE NUMBERS

REFERENCE NO.	NUMBER OF TESTS
AKXPAC96.300	2 x 300
AKXPAC96.1200	2 x 1200

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

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Distributed by:

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