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Procedure for Determination of Percentage Difference in Reduction between treated and control cells in Cytotoxicity I Proliferation Assays

- A correct factor (RO) for the absorbance of oxidized KineticBlue must be calculated.
- Measure the absorbance (AM) of growth medium alone. (without addition of KineticBlue)
- Measure the absorbance of oxidized (blue) KineticBlue in growth medium at the low and high wavelengths.
- Substract (AM) from each of the measured KineticBlue absorbance to produce, respectively, AOLW and AOHW. These are absorbance of oxidized (blue) KineticBlue at the low and high wavelengths respectively.
- Calculate the correction factor RO of oxidized KineticBlue :

$$
(\mathrm{RO})=(\mathrm{AOLW}) /(\mathrm{AOHW})
$$

- Measure the absorbance values (ALW and AHW) of a test sample at each wavelength.
- Calculate the percentage of reduced KineticBlue (ARLW) in a sample as :

$$
\text { ARLW = } 100 \times[A L W-(A H W \times R O)]
$$

- Calculate the percentage difference in reduction (PDR) between treated \& control cells :

$$
\text { PDR = } 100 \times \text { (test ARLW I positive growth control ARLW) }
$$

