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Procedure for Determination of Percentage Difference in Reduction between treated and control cells in Cytotoxicity / 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* :

(RO) = (AOLW) / (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 :

 $ARLW = 100 \mathbf{x} [ALW-(AHW \mathbf{x} RO)]$

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

PDR = 100 x (test ARLW / positive growth control ARLW)