Deep Blue Cell Viability™ Kit

Catalog# / Size	424701 / 25 mL 424702 / 100 mL
Regulatory Status	RUO
Other Names	Resazurin
Description	The Deep Blue Cell Viability™ Kit is formulated to study cell proliferation and quantification. The extent of resazurin reduction and resorufin production is proportional to the number of metabolically active cells (live cells) present in the culture. The Deep Blue Cell Viability™ Kit can facilitate cytotoxicity studies in high-throughput screening, as well as the evaluation of new drugs and chemicals.

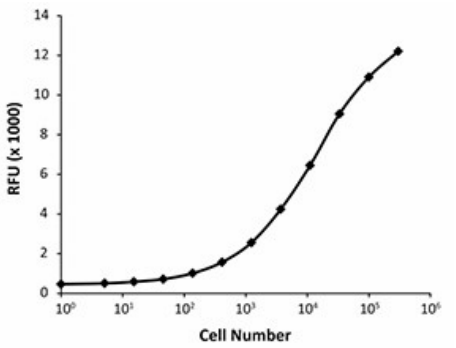
Product Details

Formulation	Aqueous solution.
Preparation	The solution is filtered through a 0.22 µm membrane that contains no preservatives.
Storage & Handling	Store at 2°C to 8°C for up to 12 months.
Application	FA - Quality tested
Recommended Usage	Add 10% of the Deep Blue Cell Viability™ Kit to the wells containing the cells to study. For example: in a well containing 100 µl of cell culture, add 10 µl of the Deep Blue Cell Viability™ reagent. Incubate as needed depending on the cell type, which is typically one - six hours.
Application Notes	The Deep Blue Cell Viability™ Kit is based on the resazurin reagent. The typical blue color of resazurin is converted to fluorescence by the action of metabolic enzymes. The reduction of resazurin into resorufin can be detected using a fluorometer (Excitation: 530-570 nm, Emission = 590-620 nm).
Application References **(PubMed link indicates BioLegend citation)**	1. Nakayama GR, *et al.* 1997. *J. Immunol. Methods.* 2:205. 2. Wilson I, *et al.* 2000. *Eur. J. Biochem.* 17:5421.
Product Citations	1. Khan KA, *et al.* 2020. NPJ Breast Cancer. 6:29. PubMed 2. Taft J, *et al.* 2021. Cell. 184(17):4447-4463.e20. PubMed 3. Khan KA, *et al.* 2020. NPJ Breast Cancer. 6:29. PubMed 4. Kucab JE, *et al.* 2019. Cell. 177:821. PubMed

Antigen Details

Biology Area	Cell Biology, Cell Proliferation and Viability, Neuroscience
Gene ID	NA

Product Data



Detection of Baf3/CCR3 cells viability using Resazurin fluorescence measurement. The increasing cell numbers correlate with the increasing fluorescence.

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