SOP-P006

Preparation of 20 mM DCFH-DA

Objective: To prepare a solution of 2',7'-dichlorofluorescin diacetate (DCFH-DA) in absolute ethanol for staining cells for the detection of hydrogen peroxide release in functional assays using flow or image cytometry

Procedure:

- 1. Weigh out a quantity of DCFH-DA between 2 and 9 mg on a square of glassine paper.
- 2. Transfer the dye immediately to a 12 x 75 mm foil-wrapped test tube with stopper.
- 3a. Calculate the volume of ethanol required in ml by dividing the actual weight in mg of the dye by 9.76 (20mM DCFH-DA is 9.76mg/ml).
- 3b. Pipet the calculated volume of absolute (anhydrous) ethanol into the tube.
- 4. Stopper the tube and mix well. Check to see that the dye has dissolved.
- 5. Label the tube with content information, date, and your initials. Keep the dye solution refrigerated at 0-5°C and discard unused portion at the end of the day.

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