

ICG (CARDIOGREEN) UPTAKE AND RELEASE OF DIFFERENTIATED HEPATOCYTES

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1. Culture cells in 24 well plate overnight or longer time with treatment.
2. Prepare Cardiogreen reagent (Sigma Cat# I2633) freshly: dissolve powder at 25mg/ml in DMSO, then dilute it in DMEM to 1mg/ml(working concentration)
3. Aspirate old medium, then add DMEM medium with 1mg/ml cardiogreen (500ul/well), incubate at 37°C for 1 hour
4. Change into complete medium and take picture.
5. Incubate cells at 37°C for more than 6 hours, and then check it under microscope.

NOTE:

Step 2: the Cardiogreen reagent should be prepared freshly: powder can only be dissolved in organic solvent, such as ethanol、DMSO, but over 5% DMSO in medium will damage cells.

Step 4: if the cells have function to uptake cardiogreen, you can see green in cell nucleus.

Step 5: if cells can release cardio green into medium, you can see green color disappeared.