

Cell Transfection (Lipofectamine)
Kenneth Eum (5/1/2012)

1. Prepare a master mix consisting of serum free media (SFM), Plus reagent, and the Lipofectamine LTX reagent
 - a. In a 1.5ml tube, add the appropriate amount of DNA (1 μ g)
 - b. Add the appropriate amount of the Plus reagent
 - i. 1 μ l of Plus reagent per transfection
 - c. Add the appropriate amount of pre-warmed SFM
 - i. 100 μ l of SFM per transfection
 - d. Incubate for 5-10 minutes
 - e. Add the appropriate amount of the Lipofectamine LTX reagent
 - i. 3 μ l per transfection
 - f. Very gently mix the cocktail
2. Incubate for 30 minutes
3. In the 35mm dishes where the cells are growing, remove 1.5ml of media leaving only 0.5mL of media in the dish with the cells.
4. Add the appropriate master mix + DNA prepared from step 1
5. Incubate the cells at 37°C with 5% CO₂ for at least 4 hours
6. After 4 hours remove the media from the cells and replace with 2ml of the appropriate fresh media
7. After 24 hours, begin to select with selection agents
 - a. If using blasticidin, use 10 μ g/ml (50 μ l blasticidin in 50ml of media)
 - b. If using zeocin, use 250 μ g/ml (125 μ l of zeocin to 50ml of media)
 - c. If using geneticin, use 1000 μ g/ml (1000 μ l of geneticin to 50ml of media)