Cellomics Technology
innovative tools for genetic engineering

Cellite® Transfection Reagent Protocol

Cellite@ transfection reagent is a polymer formulation for the transfection of nucleic acid into eukaryotic cells. Cellite@ transfection reagents provide higher transfection efficiency in most of cell types we tested that any current available transfection reagents on market.

Transfection Procedure

Note: all quantity and volume is given on per well of 96-well plate, it should be scale up or down based on cell numbers if you use different cell culture plastic wares

1. **Seed cells into 96 well plate**

   a. For adherent cells: plate 5,000 -10,000 cells/well the day before to get about 90% confluent at the time of transfection.
   b. For suspension cells: suspension culture cells should be in good growth condition before transfection.

2. **Transfection Complex Preparation**

   1) Solution A: Add DNA to an Eppendorf tube and dilute with Cellite Buffer to final volume of 5 µl for one well of 96-well transfection. *Note: The optimal DNA quantity per well varies for different cell types, usually in the range of 0.2 - 0.5 µg/well of 96-well plate.*
   2) Solution B: Add Cellite@ Reagent to an Eppendorf tube and dilute with Cellite@ Buffer to 5 µl for one well of 96-well transfection (1 µl of Cellite@ Reagent should be used for 1 µg of DNA). *Note: The total volume of Cellite@ Reagent should be calculate if more well need to be transfected).*
   3) Mix Solution A and B and incubate at room temperature for 15 minutes.

3. **Add transfection complex into cells: dilute 10 µl of transfection complex by adding 100 µl of OPTI-MEM (preferred) or 100 µl of other serum-free growth medium**

   a. For adherent cells, Aspirate the growth medium from the wells, and add the diluted transfection complex complexes to the well.
   b. For suspension cells, 10,000 cells/well should be resuspended in 100 µl of Opti-MEM or serum free growth medium (it is better to wash once with PBS if it is possible). Add the diluted transfection complex complexes to the well.

4. **Change back to normal cell culture medium 2 hour to overnight post-transfection.**

5. **Incubate the cells for 18 – 48 hours prior to check transgene expression.**