DOTAP Transfection of cells

DOTAP (N-[1-(2, 3-Dioleoyloxylpropyl] N, N, N-triethylammonium methyl sulphate) is a liposomal transfection reagent for the delivery of negatively charged biomolecules such as DNA, RNA, oligonucleotides and protein into eukaryotic cells. NOTE: DOTAP is not cytotoxic up to a concentration of 100µg/ml. Recommended working concentration of 5-10µg DOTAP/ µg of DNA and 10-20µg DOTAP/ml cell culture medium.

For a 6 cm dish, use 1µg DNA and 20µl DOTAP

Procedure

1. Change cells into 2ml serum-free DMEM.
2. Add DNA (1µg) to dish and swirl to mix.
3. Incubate for 1 hour.
4. Add DOTAP (20µl) to dish and swirl to mix.
5. Change media after 5 hours and check expression in the morning.