普飞生物®

SuperFectin™ II In Vitro DNA Transfection Reagent

Cat NO.	2102-005 2102-010
Quantity:	0.5 mL 1.0 mL

Introduction: SuperFectin™ II DNA In Vitro Tranfection Reagent is enhanced version of SuperFectin™ I DNA In Vitro Transfection Reagent. Compared with its previous version, SuperFectin™ II was formulated by refined chemistry with addition of an enhancer and was confirmed to be more powerful in delivering DNA to various established cell lines as well as primary cells, insect cells.

Storage: SuperFectin™ II Reagent is stable for up to 12 months at +4℃ after receipt.

Manufactured: In USA

A Protocol for Transfections of Bacmids Into Sf9 Cells in 6-well format

1. Count Sf9 cells, and adjust cell density to 5 x105 cells/ml in unsupplemented SF900II media.
2. Seed 2 ml of cell suspension per well (1 x 106 cells/well).
3. Label 2 wells as “negative control”, 2 wells as “1 µg DNA”, and 2 wells as “2 µg DNA”.
4. Incubate dishes at 27°C for 30-60 minutes (enough time to allow the cells to attach to the bottom of the wells).
5. Aliquot 500 µl of sterile diluent (150 mM NaCl) into three 1.5 ml Eppendorf tubes. Label the tubes “0”, “1 µg”, and “2 µg”. These will serve as 2.5X Master Mixes for each of the three conditions.

   NOTE: The sterile diluent should be 150 mM NaCl which is essential for DNA/ SuperFectin™ II complex formation.

   IT IS IMPORTANT THAT THE DNA IS ADDED FIRST AND THE SuperFectin™ II Reagent IS ADDED SECOND TO EACH TUBE.
6. Aliquot 2.5 µg of bacmid into the “1 µg” Master Mix tube. Aliquot 5 µg of bacmid into the “2 µg” Master Mix tube.
7. Briefly vortex the tubes.
8. To the “1 µg” Master Mix tube, add 10 µl of SuperFectin™ II Reagent and **IMMEDIATELY VORTEX** for 5 seconds.
9. To the “2 µg” Master Mix tube, add 20 µl of SuperFectin™ II Reagent and **IMMEDIATELY VORTEX** for 5 seconds.
10. Allow the Master Mix tubes to sit in the hood for 10~15 minutes.
11. During the 10~15 minutes incubation period, remove the freshly seeded plates from the incubator. Remove the media from each well, and wash adherent cell monolayer 1X with 2 ml of unsupplemented SF900II media.
12. Add 2 ml of SF900II + gentamicin to each well.
13. After the 10-15 minutes incubation, mix the contents of each Master Mix via gentle pipetting **(DO NOT REVORTEX)**.
14. Add 200 µl of each Master Mix to the appropriate well, and mix by gently rocking the plate(s).
15. Place plate(s) on a level surface at 27°C
16. Harvest supernatants at day 5 post transfection, for use in high titer stock production.

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