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Targeting Systems Introduces:

Targefect-Bronchial

Suggested transfection protocol for Bronchial epithelial cells

Cells incubated with transfection complexes in the absence of serum

Please vortex F-1 reagent at full speed for 30 seconds once or twice just before use. Do not vortex the f-2 reagent or Virofect Conditions recommended most are in bold

Tube #	High Glucose DMEM	DNA	Targefect	Enhancer reagent
1	1 ml	1.5 µg	5 μl F-2	-
2	1 ml	2 μg	5 µl F-1	-
3	1 ml	2 μg	5 µl F-1	15 µl Virofect
4	1 ml	2 μg	6 µl F-2	15 µl Virofect

Add DMEM first, mix well, then add targefect, mix well, Add enhancer last and mix well again. Incubate at 37 °C to form transfection complexes.

Add 1ml of transfection complex per well of a 6-well dish, Add 0.3 ml of transfection complex per well of a 12-well dish or 0.15 ml of transfection complex per well of a 24 well dish (make sure cells are covered well or else add 0.2 ml complex per well. Incubate cells with transfection complexes at 37 °C for 2 hrs. Add complete media with serum, add 0.5 ml complete media per well of a 24 well dish, 1 ml per well of a 12-well dish, 2ml per well of a 6-well dish. Mix gently and incubate overnight. Replace media the next day. Assay at 30-48hrs post transfection. We recommend using media with 10% serum as the complete media.

Cells incubated with transfection complexes in the absence of serum

Tube #	High Glucose DMEM	DNA	Targefect	Enhancer reagent
1	0.5 ml	6 μg	12 µl F-1	25 µl Virofect
2	0.5 ml	6 µg	12 μl F-2	25 µl Virofect

Add DMEM first, mix well, then add targefect, mix well, Add enhancer last and mix well again. Incubate at 37 °C to form transfection complexes. Add 70 µl of transfection complex to 0.5 ml of complete media per well of a 24 well dish.

Add 250 µl of transfection complex to 1ml of complete media (i.e. media with 10% serum) per well of a 6- well dish. Swirl the dish to mix transfection complexes with complete media. Assay at 30-48 hrs post transfection



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These last two conditions are highly recommended.

- Complex 6 µg DNA with 24 µl F-1 and 24 µl of Virofect in 0.6 ml DMEM. Incubate at 37 °C for 25 mins to form complexes. Add 0.2 ml of transfection complex to 2 ml of complete media per well of a 6-well dish immediately after plating cells or add 0.05 ml complex to 0.5 ml of complete media in one well of a 24 well dish.
- Complex 6 µg DNA with 24 µl F-1 and 48 µl of Virofect in 0.6 ml DMEM Incubate at 37 °C for 25 mins to form complexes. Add 0.2 ml of transfection complex to 2 ml of complete media per well of a 6well dish immediately after plating cells or add 0.05 ml complex to 0.5 ml of complete media in one well of a 24 well dish.

NOTE: THE CELLS SHOULD BE PLATED IN COMPLETE MEDIA CONTAINING 10% SERUM

Assay at 36-48 hrs post transfection

These last two conditions give very high efficiencies in other difficult to transfect cells.

Suggested transfection protocol for Bronchial cells

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PROTOCOL 1

Transfection of cells in presence of serum:

Step1: Preparation of transfection complexes -

Please prepare transfection complexes using serum free DMEM. Use 2 ml or 5 ml sterile clear polystyrene tubes preparing transfection complexes. Make additions as follows:

Tube #	High Glucose DMEM	DNA	Targefect	Enhancer reagent
1	0.5 ml	6 µg	12 µl F-1	25 µl Virofect
2	0.5 ml	6 µg	12 µl F-2	25 µl Virofect
3	0.5 ml	12 µg	12 µl F-2	25 µl Virofect
4	0.5 ml	6 µg	12 µl F-1	
5	0.5 ml	10 µg	20 μl F-2	

Add DMEM first, mix well, then add targefect, mix well, Add enhancer last and mix well again. Incubate at 37 oC for 25 mins to form transfection complexes.

Add 250 µl of transfection complex to 2 ml of complete media (with 10 % serum) per well of a 6 well dish.

Add 125 µl of transfection complex to 0.5 ml of complete media (with 10% serum) per well of a 12 well dish.

Add 70 µl of transfection complex to 0.5 ml of complete media per well of a 24 well dish.

Swirl the dish to mix transfection complexes with complete media. Replace media with fresh culture media the next day. Assay at 30-48 hrs post transfection.