GeticoFect™ IC Transfection Reagent Instruction Manual - Adherent Cells

Ordering Information

Product Name	Product Number	Volume	Store
GeticoFect™ IC Transfection Reagent	131001	0.75 mL	4°C
GeticoFect™ IC Transfection Reagent	131002	1.5 mL	4°C
GeticoFect™ IC Transfection Reagent	131003	15 mL	4°C

Product Description

GeticoFect™ IC is a highly efficient, low-toxicity, and serum-resistant transfection reagent. It features high transfection efficiency, low cytotoxicity, and a simple operation method. Specifically designed for insect cells, it is suitable for transfecting plasmid DNA, Bacmid DNA, and RNAi. This product can be used for both adherent and suspension cell transfection.

For common cell types, GeticoFect™ IC insect cell transfection reagent offers higher efficiency and lower usage compared to other reagents, providing customers with better cost-performance. The 1.5 mL specification is sufficient to complete approximately 1000 transfection reactions (in 24-well plates).

Shipping and Storage

Ship with ice packs. Store at 2-8°C. Do not freeze.

Transfection Protocol

Note 1: The usage amount of the transfection reagent is affected by cell types and experimental conditions. It is recommended to set up gradients for optimization when using it for the first time.
Note 2: This product is specially optimized for use in serum-containing and serum-free media. The medium does not need to be changed after transfection. The transfection reagent and sample can be directly mixed and added to the culture medium.

- **Adherent cells**: Cell density should be over 90% at the time of transfection.
- **Suspension cells**: Cell density should be over 90% at the time of transfection.

1. Inoculate cells to a density of over 90%, and perform transfection according to the following cell counts.
2. Take a new EP tube, dilute GeticoFect IC transfection reagent with Opti-MEM medium as shown in the table below, mix well, and let stand at room temperature for 5 minutes. (If only one replicate is done, take 10 µL of transfection reagent for a 6-well plate, and so on.)

Culture Vessel Type	96-well	24-well	6-well
Opti-MEM Medium	5 µL	25 µL	125 µL
GeticoFect™ IC	0.4 µL	2 µL	10 µL

3. Take a new EP tube, dilute the DNA sample to be transfected with Opti-MEM medium to prepare a DNA premix, and mix well.

Culture Vessel Type	96-well	24-well	6-well
Opti-MEM Medium	5 µL	25 µL	125 µL
Bacmid DNA (0.5-5 µg/µL)	0.04 µg	0.2 µg	1 µg

4. Take a new EP tube, mix the premixes prepared in steps 2 and 3 at a 1:1 ratio, gently pipette to mix, and let stand at room temperature for 5 minutes.

Culture Vessel Type	96-well	24-well	6-well
Diluted Bacmid DNA	5 µL	27 µL	135 µL
Diluted GeticoFect IC	5 µL	25 µL	125 µL

5. Add the incubated mixture to the cells in the following volumes.

Culture Vessel Type	96-well	24-well	6-well
DNA-GeticoFect IC Complex	10 µL	50 µL	260 µL
DNA Dosage per Well	50 ng	200 ng	1000 ng
GeticoFect™ IC Dosage per Well	0.4 µL	2 µL	10 µL

6. Incubate the transfected cells at 27°C for 72-96 hours (without humidity treatment or carbon dioxide addition). Use a microscope to analyze the transfection efficiency and cell status.

Note: This product is specially optimized. For most cells, there is no need to change the medium after transfection. Cultivate at 27°C for 72-96 hours, and then the gene transfection effect can be detected. The incubation time is somewhat different and related to the cell type.

7. Dosage Calculation Table for Different Specifications of Transfection Reagent

Culture Vessel Type	Medium Usage	DNA Transfection		
	Cell Culture Medium Volume	Medium Volume for Transfection Reagent and DNA Preparation	Bacmid DNA (µg)	GeticoFect™ IC Reagent (µL)
96-well	120 µL	2×5 µL	0.04	0.4
48-well	240 µL	2×10 µL	0.08	0.8
24-well	600 µL	2×25 µL	0.2	2
12-well	1.2 mL	2×50 µL	0.4	4
6-well	3 mL	2×125 µL	1	10
60 mm	5 mL	2×250 µL	2	20

Culture Vessel Type	Medium Usage	DNA Transfection		
10 cm	10 mL	2×500 µL	4	40
T75	15 mL	2×750 µL	6	60
T175	35 mL	2×1.75 mL	14	140