



GeticoFect™ 293 Transfection Reagent

Ordering Information

Product Name	Product Number	Specification	Storage
GeticoFect 293 Transfection Reagent	131301	0.75 mL	4°C
GeticoFect 293 Transfection Reagent	131302	1.5 mL	4°C
GeticoFect 293 Transfection Reagent	131303	15 mL	4°C

Product Description

GeticoFect 293 transfection reagent is a unique nano-formulation widely used for transfecting DNA into various eukaryotic cells, especially 293 suspension cells. This reagent is optimized for transfecting suspension 293 human embryonic kidney cells (such as 293-F cells) and can be used in conjunction with the 293 expression system. GeticoFect 293 transfection reagent has the following advantages:

- High transfection efficiency for 293 suspension cells, also suitable for adherent 293 cells.
- Defined composition.
- No medium change required.
- High transfection efficiency.
- No need to remove complexes or change/add medium after transfection.

Shipping and Storage

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

Transfection Protocol

Note: The dosage of 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.

- **Adherent cells:** 20–24 hours before transfection, digest cells with trypsin and count them. Plate cells (without antibiotics), and the cell density should be 70–90% at transfection.
- **Suspension cells:** Cell density should be 70–90% at transfection.

1. Inoculate cells according to the table below (taking 293F suspension cells as an example):

Medium Volume	28 mL	56 mL	112 mL
Cell Seeding Count	3×10^7	6×10^7	1.2×10^8

Note: Detect cell viability and count in advance. The proportion of viable cells should be >90%, and shake the cells gently to mix evenly before seeding.

2. Take a new 15 mL centrifuge tube, dilute the DNA to be transfected with Opti-MEM I medium according to the table below, and mix gently and thoroughly.

Medium Volume	28 mL	56 mL	112 mL
Opti-MEM I Medium	1 mL	2 mL	4 mL
DNA	30 µg	60 µg	120 µg

3. Take a new 15 mL centrifuge tube, dilute GeticoFect 293 transfection reagent with Opti-MEM I medium, and mix gently and thoroughly.



Medium Volume	28 mL	112 mL
Opti-MEM I Medium	1 mL	4 mL
GeticoFect 293 Transfection Reagent	60 μ L	240 μ L

4. Incubate at room temperature for 5 minutes. Note: Do not exceed 5 minutes.

After 5 minutes, mix the prepared DNA solution and GeticoFect 293 transfection reagent solution at a 1:1 ratio to form a DNA-GeticoFect 293 complex. Shake gently to mix, and let stand at room temperature for 20–30 minutes.

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

Medium Volume	28 mL	56 mL	112 mL
DNA-GeticoFect 293 Complex	2 mL	4 mL	8 mL

6. Incubate the transfected cells at 37°C, 8% CO₂, 225 rpm with shaking for 2–7 days, then collect the cells to detect protein expression results.

Note: This product is specially optimized for suspension cells such as 293F. No medium change is required after transfection, and high-level protein expression results can be obtained.