GeticoFect™ RNAiMax Transfection Reagent User Manual

Ordering Information

Product Name	Product No.	Specification	Storage
GeticoFect™ RNAiMax Transfection Reagent	130201	0.75 mL	4 ℃
GeticoFect™ RNAiMax Transfection Reagent	130202	1.5 mL	4 ℃
GeticoFect™ RNAiMax Transfection Reagent	130203	15 mL	4 ℃

Product Description

GeticoFect™ RNAiMax Transfection Reagent provides the highest transfection efficiency for the broadest range of cell types and can be used for siRNA-mediated gene knockout experiments. RNAiMax is a unique and optimized RNAi-specific nano-transfection reagent specially designed to deliver siRNA or miRNA to all cell types.

For common cell types, GeticoFect™ RNAiMax reagent has higher efficiency and lower dosage compared to other reagents, thus bringing better cost-performance to customers. The 1.5 mL specification product is sufficient to complete up to 1000 transfection reactions (in 24-well plates).

Shipping and Storage

Shipped with ice packs, stored at 2-8 ºC. Do not freeze.

Transfection Procedure

Note 1: The usage amount of the transfection reagent is affected by cell types and experimental conditions. It is recommended to set 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 before transfection. The transfection reagent and sample can be directly mixed and added to the culture medium. For some difficult-to-transfect cells, it is recommended

to replace them with serum-free medium before transfection and then switch back to complete medium or add serum after 4-6 hours of transfection.

1. Inoculate cells to 70-90% confluency. Perform transfection according to the following cell counts:

Culture Dish Type	24-Well	6-Well
Cell Number	0.5 - 2×10^5	0.25 - 1×10^6

2. Take a new EP tube, dilute GeticoFect™ RNAiMax reagent with Opti-MEM medium according to the table below, make two replicates, and mix thoroughly.

Culture Dish Type	96-Well	24-Well	6-Well
Opti-MEM Medium	5 μL	25 μL	125 μL
GeticoFect™ RNAiMax	0.3 μL	1.5 μL	7.5 μL

3. Take a new EP tube, dilute the siRNA sample to be transfected with MEM medium, prepare the siRNA premix, and mix thoroughly.

Culture Dish Type	96-Well	24-Well	6-Well
Opti-MEM Medium	5 μL	25 μL	125 μL
siRNA (10 μM)	0.1 μL (1 pmol)	0.5 μL (5 pmol)	2.5 μL (25 pmol)

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

Culture Dish Type	96-Well	24-Well	6-Well
Diluted siRNA	5 μL	25 μL	125 μL
Diluted GeticoFect™ RNAiMax	5 μL	25 μL	125 μL

5. Add the mixture incubated in the above step to the cells according to the following volumes.

Culture Dish Type	96-Well	24-Well	6-Well
siRNA-GeticoFect™ RNAiMax Complex	10 μL	50 μL	250 μL
siRNA Dosage per Well	1 pmol	5 pmol	25 pmol
GeticoFect™ RNAiMax Dosage per Well	0.3 μL	1.5 μL	7.5 μL

6. Incubate the transfected cells at 37℃ for 1-3 days, and analyze the transfection efficiency and cell status using a microscope.

7. Appendix: Configuration Table of Common Experimental Systems (The dosage of transfection reagent is linearly related to the dosage of medium. The dosage of transfection reagent and RNAi can be adjusted accordingly with reference to the table below and according to the dosage of medium):

Culture Dish Type	Relative Surface Area	Plating Medium Volume	Diluted Medium Reverse Transfection	Diluted Medium Forward Transfection	RNAi (pmol)	RNAi (nM)	GeticoFect™ RNAiMax
96-Well	0.2	100 μL	20 μL	2×10 μL	0.12-6	1-50	0.1-0.3 μL
48-Well	0.4	200 μL	40 μL	2×20 μL	0.24-12	1-50	0.2-0.6 μL
24-Well	1	500 μL	100 μL	2×50 μL	0.6-30	1-50	0.5-1.5 μL
6-Well	5	2.5 mL	500 μL	2×250 μL	3-150	1-50	2.5-7.5 μL
60 mm	10	5 mL	1 mL	2×500 μL	6-300	1-50	5-15 μL
100 mm	30	10 mL	2 mL	2×1 mL	12-600	1-50	15-35 μL