

TransIntro[®] mRNA Transfection Reagent

Please read the manual carefully before use.

Cat. No. FT501

Storage: at 2-8°C for one year, do not freeze.

Description

TransIntro[®] mRNA Transfection Reagent is a cationic polymer transfection reagent with high performance specifically designed for mRNA delivery, which can directly deliver mRNA into the cytoplasm for expression, avoiding the limitation of transcription regulation and the nuclear entry step. This reagent has lower cytotoxicity and higher transfection efficiency in conventional cells and difficult-to-transfect cells than conventional DNA transfection methods. This mRNA transfection reagent can tolerate with antibiotics and serum, and with stable performance.

Features

- High transfection efficiency: Efficiently transfect difficult-to-transfect cells.
- Low cytotoxicity: It has little effect on cell physiological processes.
- Easy operation: There is no need to change culture medium after transfection, and it can be added directly to cells in culture medium with serum and antibiotics.

Kit Content

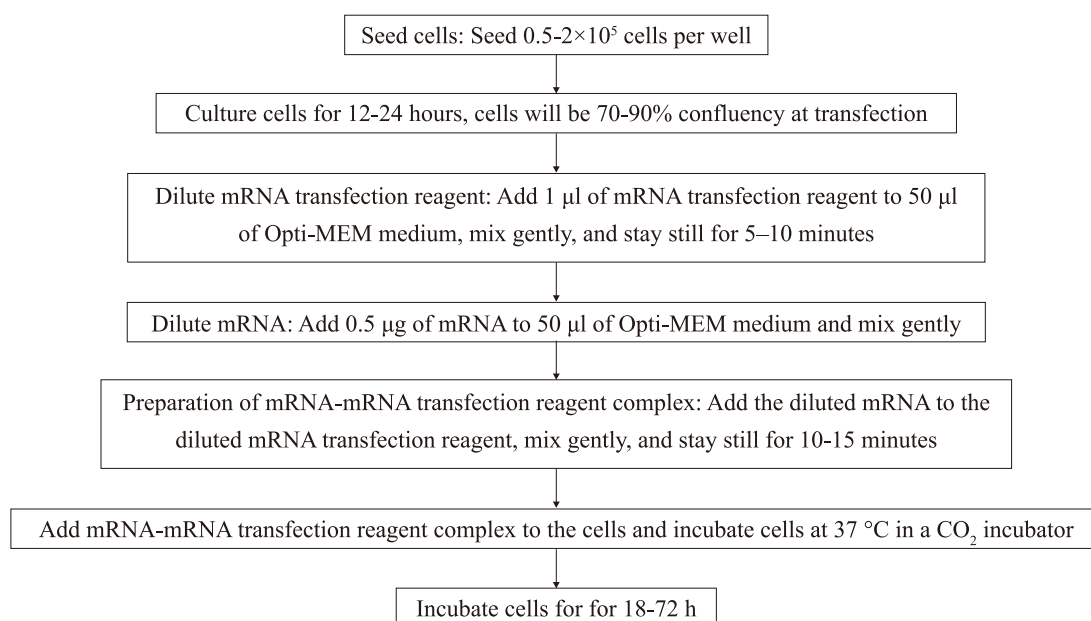
Component	FT501-01	FT501-02
TransIntro [®] mRNA Transfection Reagent	0.2 ml	1 ml

Reagent not included in the kit

Product Name	Catalog
Opti-MEM [®] I Reduced Serum Medium	Thermo Fisher, Cat.31985062

mRNA transfection

Taking a 24-well cell culture plate as an example, the steps are as follows:



Optimization of mRNA transfection

To achieve optimal combination of high transfection efficiency and low cytotoxicity, the ratio of mRNA to mRNA transfection reagent and the initial cell density for transfection can be optimized, refer to the table below for the specific optimization range.

Amount of culture medium, mRNA and mRNA transfection reagent in transfection of different cell culture plates

Cell Culture Plate	Surface Area per Well (cm ²)	Volume of Plating Medium (ml)	mRNA Transfection		
			mRNA(μg)	mRNA Transfection Reagent	Opti-MEM (μl)
96-well	0.3	0.1	0.1	0.1-0.3	10 × 2
48-well	1	0.25	0.2	0.2-0.6	25 × 2
24-well	2	0.5	0.5	0.5-1.5	50 × 2
12-well	4	1	1	1-3	100 × 2
6-well	10	2	2.5	2.5-7.5	200 × 2
35 mm	10	2	2.5	2.5-7.5	200 × 2
60 mm	20	5	5	5-15	500 × 2
10 cm	60	10	15	15-45	1000 × 2
T25	25	6	6.5	6.5-19.5	500 × 2
T75	75	25	20	20-60	1000 × 2

Notes

- Store at 2-8°C, do not freeze.
- Reagents and consumables should be RNase-free.
- For initial use, the cell plating density, mRNA input and the optimal ratio of mRNA to mRNA transfection reagent should be optimized based on the characteristics of different cells.
- Pay attention to sterile operation.

For research use only, not for clinical diagnosis.

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