

## TransIntro™ EL Transfection Reagent

Cat. No. FT201

Storage: at 2-8°C for one year

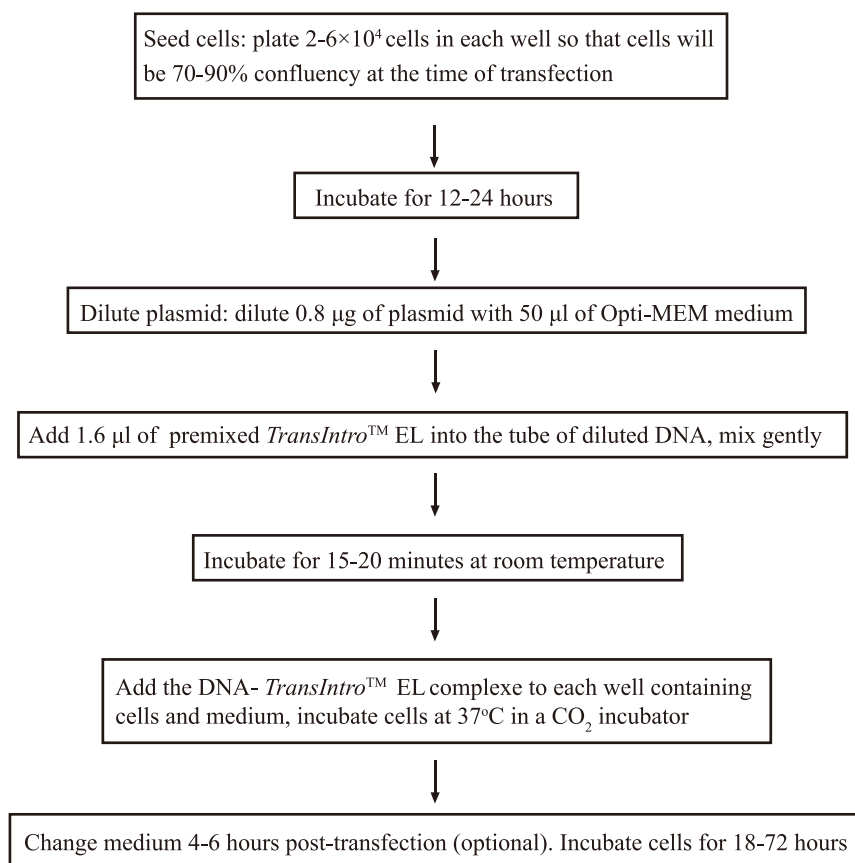
### Description

TransIntro™ EL Transfection Reagent is a non-liposomal formulation designed to transfect DNA and RNA into a wide variety of eukaryotic cell lines with high efficiency and low toxicity. Primary cells and other difficult-to-transfect cells can also be effectively transfected by this reagent.

- High efficiency
- Low cytotoxicity
- Transfect DNA and RNA
- Can be used in the presence of serum and antibiotics

### Plasmid DNA Transfection

24-well format as an example



### siRNA Transfection

Cells should be 50-70% confluency at the time of transfection. For 24-well plate, use 50 pmol of siRNA and 2  $\mu$ l of *TransIntro*<sup>TM</sup> EL. The experimental procedure is the same as DNA transfection described above.

### Optimization of plasmid DNA and siRNA transfection

In order to achieve optimal combination of high transfection efficiency and low cytotoxicity, the ratio of DNA or siRNA to *TransIntro*<sup>TM</sup> EL as well as the initial cell density for transfection could be optimized. Please refer to the table below as recommendation.

#### Amount of culture medium, nucleic acid and *TransIntro*<sup>TM</sup> EL in transfection of different cell culture plates

Culture Vessel	Surface Area per Well	Volume of Plating Medium	Dilution Volume	DNA Transfection		siRNA Transfection	
				DNA	<i>TransIntro</i> <sup>TM</sup> EL	siRNA	<i>TransIntro</i> <sup>TM</sup> EL
96-well	0.3 cm <sup>2</sup>	100 $\mu$ l	10 $\mu$ l	0.2 $\mu$ g	0.2-0.6 $\mu$ l	10 pmol	0.25-0.65 $\mu$ l
48-well	1 cm <sup>2</sup>	250 $\mu$ l	25 $\mu$ l	0.4 $\mu$ g	0.4-1.2 $\mu$ l	20 pmol	0.5-1.25 $\mu$ l
24-well	2 cm <sup>2</sup>	500 $\mu$ l	50 $\mu$ l	0.8 $\mu$ g	0.8-2.4 $\mu$ l	50 pmol	1-2.5 $\mu$ l
12-well	4 cm <sup>2</sup>	1 ml	100 $\mu$ l	1.6 $\mu$ g	1.6-4.8 $\mu$ l	100 pmol	2-5 $\mu$ l
6-well	10 cm <sup>2</sup>	2 ml	200 $\mu$ l	4 $\mu$ g	4-12 $\mu$ l	250 pmol	5-12.5 $\mu$ l
35 mm	10 cm <sup>2</sup>	2 ml	200 $\mu$ l	4 $\mu$ g	4-12 $\mu$ l	250 pmol	5-12.5 $\mu$ l
60 mm	20 cm <sup>2</sup>	5 ml	0.5 ml	8 $\mu$ g	8-24 $\mu$ l	500 pmol	10-25 $\mu$ l
10 cm	60 cm <sup>2</sup>	10 ml	1 ml	24 $\mu$ g	24-72 $\mu$ l	1.5 nmol	30-75 $\mu$ l
T 25	25 cm <sup>2</sup>	6 ml	0.5 ml	10 $\mu$ g	10-30 $\mu$ l	625 pmol	12.5-31.5 $\mu$ l
T 75	75 cm <sup>2</sup>	20 ml	1 ml	30 $\mu$ g	30-90 $\mu$ l	2 nmol	40-100 $\mu$ l

#### Successfully transfected cell types with *TransIntro*<sup>TM</sup> EL Transfection Reagent

A549	COS-1	Hep G2	MEF	PANC-1
B16-F10	DLD-1	HL-60	MIA PaCa-2	PT67
BHK-21	HCT-116	K562	Neuro-2a	SGC-7901
BTC	HEK-293	L929	NIH/3T3	SH-SY5Y
CEF	HEK-293T	MARC-145	NRK	STO
CHO	HeLa	MCF-7	P815	Vero

FOR RESEARCH USE ONLY

