

TransIntro® EL Transfection Reagent

Cat. No. FT201

Storage: at 2°C-8°C for one year. Avoid freezing.

Description

TransIntro® EL Transfection Reagent is a non-liposomal reagent designed for the efficient delivery of DNA and RNA into eukaryotic cells. It provides high transfection efficiency even in primary and hard-to-transfect cell lines, with low cytotoxicity. TransIntro® EL is compatible with serum and antibiotics during transfection, and suitable for both adherent and suspension cell cultures.

Features

- High Transfection Efficiency: Delivers superior efficiency, even in a wide range of hard-to-transfect cell types.
- Low Cytotoxicity: Minimally impacts normal cell physiology and viability.
- Simple Protocol: Transfection can be performed in the presence of serum and antibiotics without the need for a medium change post-transfection.
- Broad Applicability: Suitable for the delivery of both DNA and RNA.

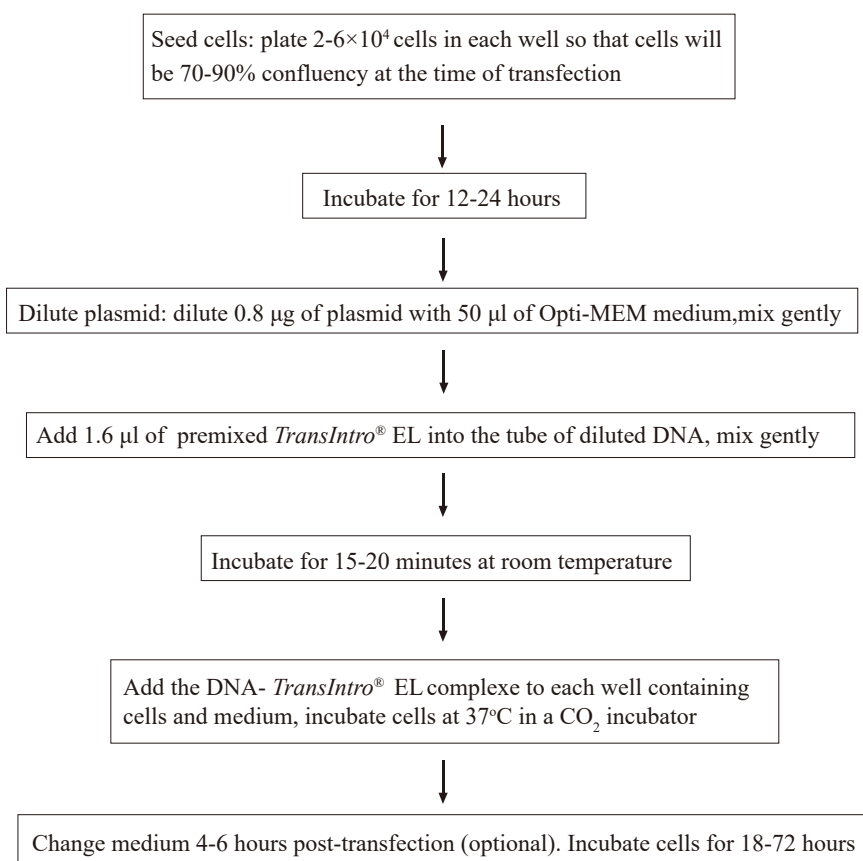
Kit Contents

Component	FT201-01	FT201-02	FT201-03
TransIntro® EL Transfection Reagent	0.75 ml	2×0.75 ml	10×0.75 ml

Application

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 μ l of *TransIntro*[®] EL. The experimental procedure is the same as DNA transfection described above.

Optimization for Plasmid DNA and siRNA Transfection

To achieve optimal results with high transfection efficiency and low cytotoxicity, we recommend optimizing the ratios of DNA or siRNA to *TransIntro*[®] EL, as well as the initial cell density at the time of transfection. Please refer to the table below for suggested optimization ranges.

Recommended Amounts of Medium, Nucleic Acid, and *TransIntro*[®] EL for Different Culture Vessels

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

Successfully transfected cell types with *TransIntro*[®] 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, not for clinical diagnosis.

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