

AllBio SuperTrans Reagent (non-liposomal polymer)

Cat. No. ABTGAFT201

Storage: at 2-8°C for one year

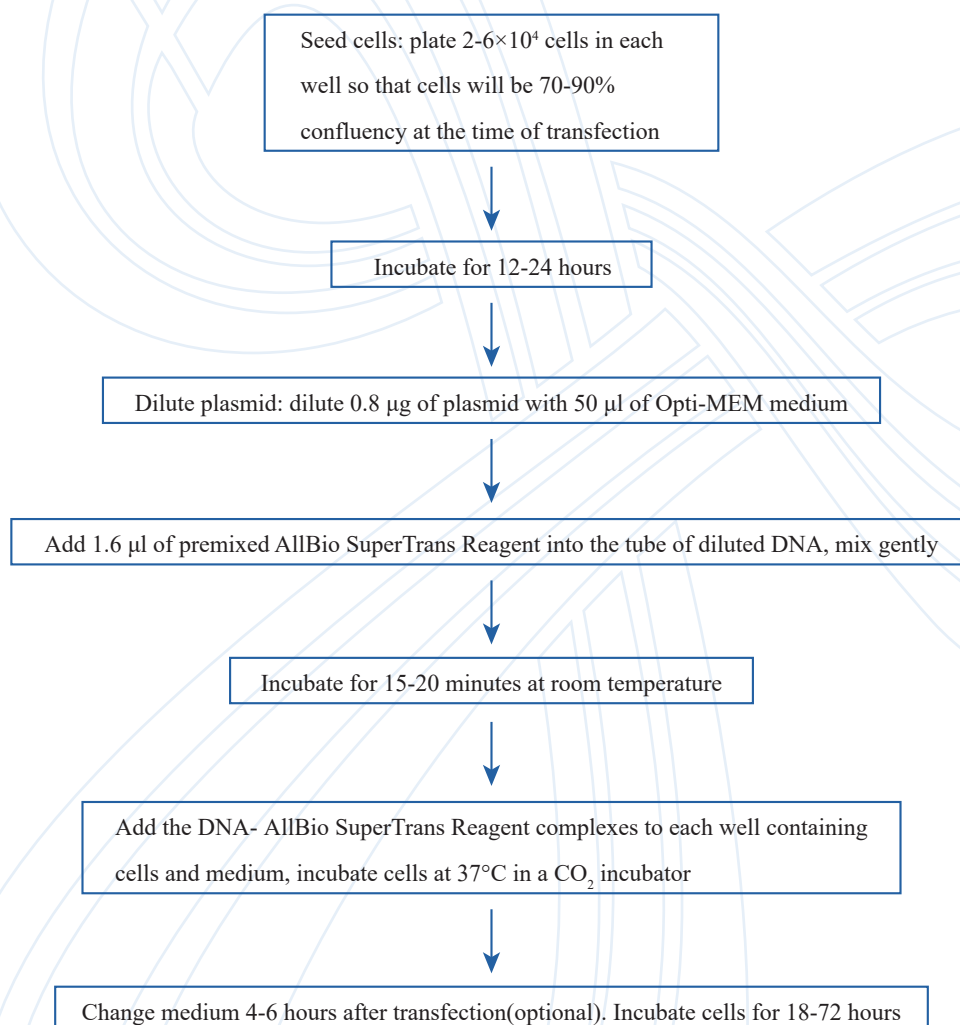
Description

AllBio SuperTrans 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



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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 AllBio SuperTrans Reagent. 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 AllBio SuperTrans Reagent 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 AllBio SuperTrans Reagent in transfection of different cell culture plates

Culture Vessel	Surface Area per Well	Volume of Plating Medium	Dilution Volume	DNA Transfection		siRNA Transfection	
				DNA	AllBio SuperTrans Reagent	siRNA	AllBio SuperTrans Reagent
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 pmol	30-75 μ l
T25	25 cm ²	6 ml	0.5 ml	10 μ g	10-30 μ l	625 pmol	12.5-31.5 μ l
T75	75 cm ²	20 ml	1 ml	30 μ g	30-90 μ l	2 pmol	40-100 μ l

Successfully transfected cell types with AllBio SuperTrans 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