

AllBio Transfection Reagent

Cat. No. ABTGATF111

Storage: at 2-8°C for one year (avoid freezing)

Description

AllBio Transfection Reagent is a proprietary formulated cationic lipid that offers superior transfection efficiency across a broad range of mammalian cell lines.

- Transfect DNA, RNA, siRNA.
- Adherent or suspension cells.
- Can be used in the presence of serum.

Applications

Transfection of adherent cells and suspension cells (mammalian cell lines)

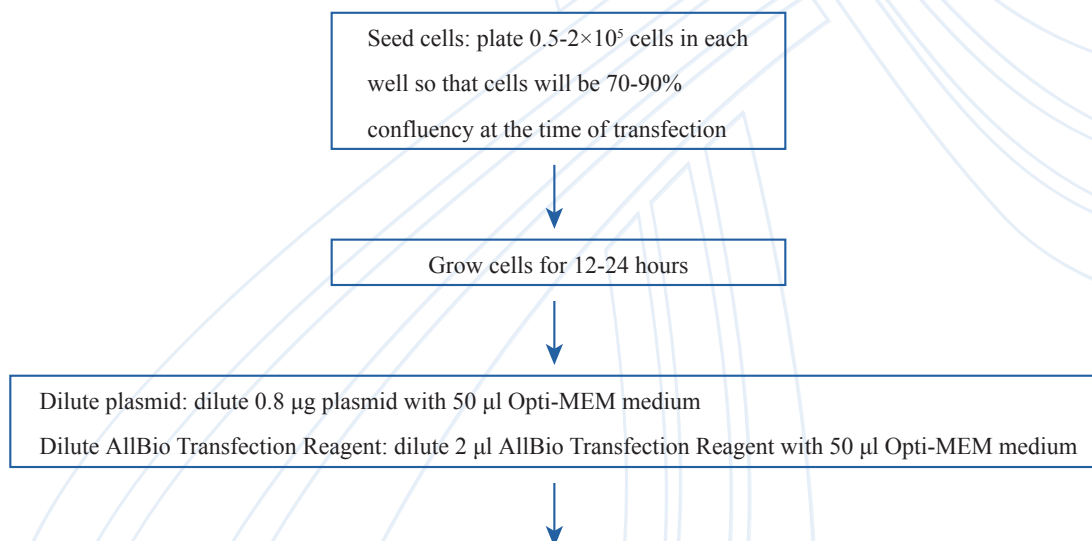
Features

- High efficiency
- Minimal cytotoxicity (cell viability > 90%)
- Simple procedure, no need for medium change after transfection

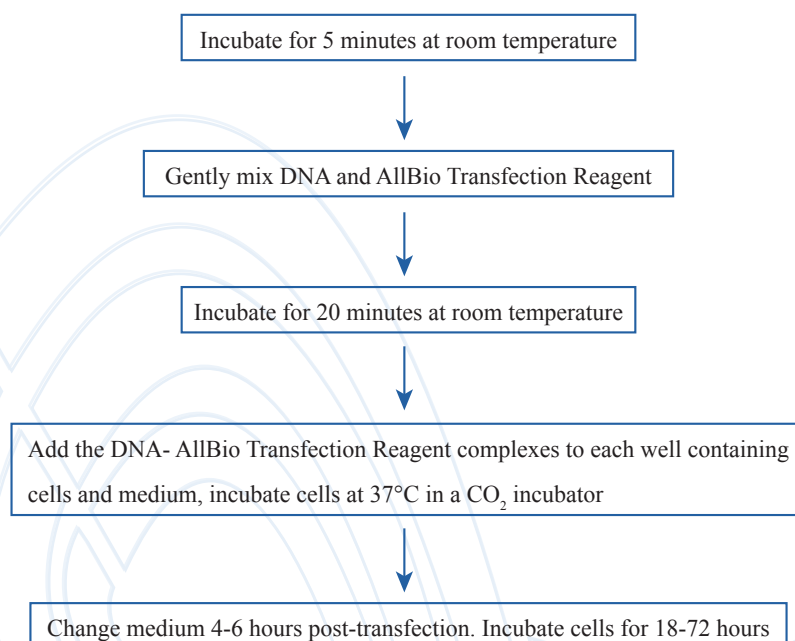
We suggest to use DNA(μg)/AllBio Transfection Reagent(μl) with ratio at 1:2-1:3. To obtain better transfection efficiency, we suggest to use high density cell (70-90% confluency).

Plasmid DNA Transfection

24-well format as an example



AllBio Transfection Reagent



siRNA Transfection

Cells should be 30-50% confluency at the time of transfection. For 24-well plate, use 20 pmol of siRNA and 1 µl of AllBio Transfection 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 Transfection Reagent as well as the initial cell density for transfection could be optimized. DNA transfection can be optimized within the range of 1:2-1:5, it is recommended to use a range of 10 to 50 pmol of siRNA and 0.5 to 1.5 µl of AllBio Transfection Reagent .

Volume of culture medium, nucleic acid and AllBio Transfection Reagent in transfection of different cell culture plates

Culture Vessel	Surface Area per Well (cm ²)	Relative Surface Area (vs. 24-well)	Volume of Plating Medium	DNA (µg) and Dilution Volume (µl)	TF Reagent (µl) and Dilution Volume (µl)	siRNA (µg) and Dilution Volume (µl)	TF Reagent (µl) and Dilution Volume (µl)
96-well	0.3	0.2	100 µl	0.2 µg in 25 µl	0.5 µl in 25 µl	5 pmol	0.5 µl in 25 µl
24-well	2	1	500 µl	0.8 µg in 50 µl	2.0 µl in 50 µl	20 pmol	2.0 µl in 50 µl
12-well	4	2	1 ml	1.6 µg in 100 µl	4.0 µl in 100 µl	40 pmol	4.0 µl in 100 µl
6-well	10	5	2 ml	4.0 µg in 250 µl	10 µl in 250 µl	100 pmol	10 µl in 250 µl
35-well	10	5	2 ml	4.0 µg in 250 µl	10 µl in 250 µl	100 pmol	10 µl in 250 µl
60-mm	20	10	5 ml	8.0 µg in 0.5 ml	20 µl in 0.5 ml	200 pmol	20 µl in 0.5 ml
10-cm	60	30	15 ml	24 µg in 1.5 ml	60 µl in 1.5 ml	600 pmol	60 µl in 1.5 ml