

TransIntro™ PL Transfection Reagent

Cat. No. FT301

Storage: at 2-8°C for one year

Description

TransIntro™ PL Transfection Reagent is a liposomal formulation designed to transfect difficult-to-transfect cell lines with high efficiency and low cytotoxicity, such as neural and tumor cell lines, including lung carcinoma, colon carcinoma, hepatic carcinoma, pancreatic carcinoma, *et.al*.

- Exceptional for difficult-to-transfect cell lines
- Low cytotoxicity
- Antibiotic tolerance

Application

Transfection and co-transfection of DNA

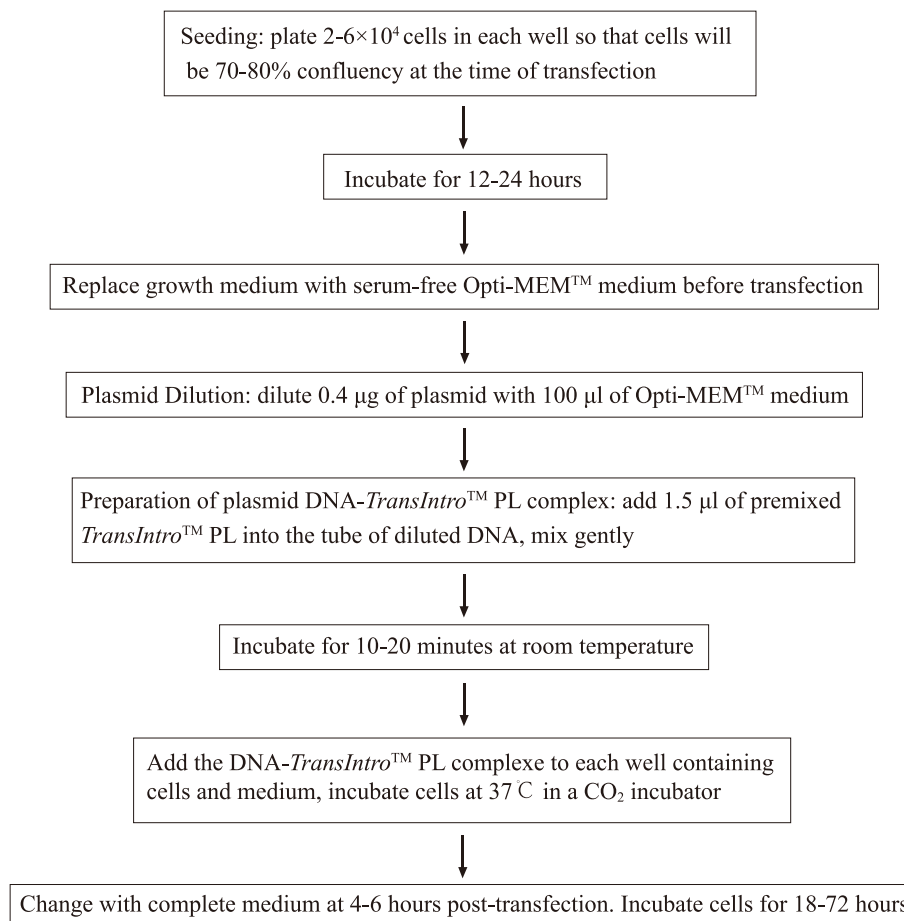
Procedures

Materials required but not included:

| Product Name | Catalog |
|----------------------------------|-----------------------------|
| Opti-MEM™ I Reduced Serum Medium | Thermo Fisher, Cat.31985062 |

Plasmid DNA Transfection

24-well format as an example



Optimization of plasmid DNA transfection

In order to achieve optimal combination of high transfection efficiency and low cytotoxicity, it is recommended to optimize the ratio of DNA to *TransIntro*TM PL as well as the initial cell density for transfection as the table below.

Amount of culture medium, nucleic acid and *TransIntro*TM PL in transfection of different cell culture plates

| Culture Vessel | Surface Area per Well | Volume of Plating Medium | Dilution Volume | DNA | <i>TransIntro</i> TM PL |
|----------------|-----------------------|--------------------------|-----------------|--------|------------------------------------|
| 96-well | 0.3 cm ² | 100 µl | 20 µl | 0.1 µg | 0.2-0.5 µl |
| 48-well | 1 cm ² | 250 µl | 55 µl | 0.2 µg | 0.4-1 µl |
| 24-well | 2 cm ² | 500 µl | 100 µl | 0.4 µg | 0.8-2 µl |
| 12-well | 4 cm ² | 1 ml | 200 µl | 0.8 µg | 1.6-4 µl |
| 6-well | 10 cm ² | 2 ml | 400 µl | 2 µg | 4-10 µl |
| 35 mm | 10 cm ² | 2 ml | 400 µl | 2 µg | 4-10 µl |
| 60 mm | 20 cm ² | 5 ml | 1 ml | 4 µg | 8-20 µl |
| 10 cm | 60 cm ² | 10 ml | 2 ml | 12 µg | 24-60 µl |
| T25 | 25 cm ² | 6 ml | 1.2 ml | 5 µg | 10-25 µl |
| T75 | 75 cm ² | 13 ml | 2 ml | 15 µg | 30-75 µl |

Successfully transfected cell types with *TransIntro*TM PL Transfection Reagent

| Tumor cell lines | | | Neural cell lines | Other cell lines | |
|------------------|------------|-----------|-------------------|------------------|----------|
| A549 | HT-29 | PANC-1 | Neuro-2a | BHK21 | L929 |
| B16-F10 | HCT 116 | SGC-7901 | SH-SY5Y | BTC | Marc 145 |
| DLD-1 | Huh7 | SMMC-7721 | Primary cells | CHO | NIH3T3 |
| HeLa | MCF7 | SW480 | HUVEC | HEK-293 | Vero |
| Hep G2 | MIA PaCa-2 | | MEF | HEK-293T | |

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Service telephone +86-10-57815020

Service email complaints@transgen.com

