Cat. No. TLC-001

GENE-Fect ™ Transfection Reagent

TLC-001	1.2 ml
TLC-001.5	5 x 1.2 ml
TLC-001.10	10X1.2 ml

This product is for laboratory research only and not for diagnostic use

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Description

GENE-Fect Transfection Reagent is a novel nano-particle-based transfection reagent for the efficient transfection experiments of broad range of mammalian cells with low cytotoxicity.

Content

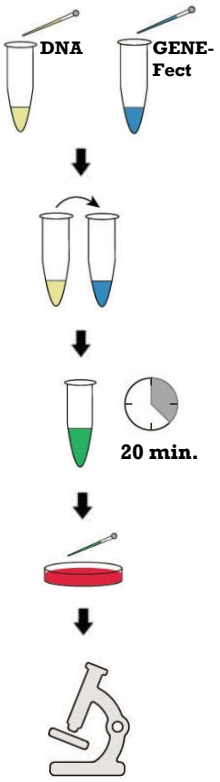
GENE-Fect Transfection reagent	1.2 ml
User manual	1 sheet

Storage Information

Store at 2-8 °C

Notice

Optimization of experimental conditions may be necessary to obtain optimal results.



Dilute DNA and GENE-Fect
Dilution buffer : DMEM or Opti-MEM or 150 mM NaCl (without serum & antibiotics)

Combine the diluted DNA with diluted GENE-Fect.

Incubate for 15~30 min. at RT.
Mix : Vortex or Tapping or Pipetting

Add the combined mixture (complex) to each well/plate containing cells in culture medium (no need for media change)

Incubate cells for 18~48 hr prior to testing for transgene expression.

Protocol

Refer to the table below when you set up transfection

Culture vessel	DNA per well (µg)	Gene-Fect per well (µl)	Volume of dilution buffer for both DNA & Gene-Fect(ul)	Total volume complexes added per well (µl)
96 well	0.06	0.18	6	12
48 well	0.125	0.375	12.5	25
24 well	0.25	0.75	25	50
12 well	0.5	1.5	50	100
6 well/ 35 mm	1	3	100	200
6 cm/ flask 25cm^2	2.5	7.5	250	500
10 cm/ flask 75cm^2	5	15	500	1000
14 cm/ flask 175cm^2	10	30	1000	2000

Use the following procedure to transfect DNA into mammalian cells in a 6-well format. For other formats, see scaling up or down Transfections.

Note : Optimization may be necessary.

1. Adherent Cells : One day before transfection, plate 0.5~2 x 10^5 cells in 2 ml of culture medium(serum & antibiotics) so that cells will be 60~80% confluent at the time of transfection.
Suspension Cells : Just prior to preparing complexes plate 4~8 x 10^5 cells in 2 ml of culture medium.

2. For the transfection (6 well or 35 mm plate), prepare complex as follows

a. Dilute DNA with 100 ul diluent (DMEM or Opti-MEM or 150 mM NaCl) , then mix well

b. Dilute GENE-Fect reagent with the identical diluent used for DNA dilution , then mix well

c. Combine the diluted DNA (**a.**) with diluted GENE-Fect Reagent (**b)** Mix well and incubate the mixture for 15 ~ 30 min at RT

3. Add the combine mixture (**c.**) to each well or 35 mm plate containing cells in culture medium.

4. Incubate cells at 37 °C in a CO_2 incubator for 18~48 hr prior to testing for the transgene expression.

(optional : change the culture medium with fresh one 8 hr after transfection)