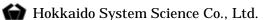
# LipoTrust<sup>™</sup> EX Gene



Contents LipoTrust<sup>™</sup> EX Gene

#### Amount and Storage

Lyophilized powder containing 1 µ mol of cationic lipid suitable for 1 ml To be kept at 2-8 C

#### Description

LipoTrust<sup>™</sup> EX Gene Reagent is a proprietary cationic liposome formulation that facilitates highly efficient delivery of Plasmid DNA to mammalian cells.

Lyophilized powder is stable so that customers can use this as long as customer keeps as instructed.

How to use Transfection Procedure

#### A-1. Preparation of liposome suspension

- 1.
- Remove the aluminum cap of vial by tool with extreme care and take off the rubber cap. Add 1 mL of **nuclease free** water into the **LipoTrust<sup>™</sup> EX Gene** vial and gently shake the vial until no powder is remained. Be 2. kept for 10 minutes before use. Please store this suspension at 2-8 .

#### A-2. Transfection

Use this procedure to transfect Plasmid DNA into mammalian cells using LipoTrust<sup>™</sup> EX Gene per 1 well in a 24-well format. For other formats, see the table in Recommended Reagent Amounts and Volumes for appropriate reagent amounts to add. Tip: To reduce well-to-well variability when transfecting multiple replicates (triplicates), proportionally scale up the reagent volumes to form complexes, then aliquot an equal volume of complexes into each well.

#### STEP 1. Cell plating

One day before transfection, plate cells and culture them for 1 day in ordinary growth medium without antibiotics per well. Cells should be 60-80% confluent at the time of transfection. (ex. HeLa Cell: 2-4x10<sup>4</sup> cells/well)

#### STEP 2. Preparation of Transfection Complex and Application to Cells

- 1.
- Add 0.8µg of **Plasmid DNA** in 50 µl of serum free medium previously prepared in a suitable microtube and mix well. Add 2 µl of prepared **LipoTrust<sup>TM</sup>** *EX* **Gene** suspension (**A-1**) into 50µl of serum free medium previously prepared in a 2. suitable microtube and mix well gently.
- Mix liquid of STEP 2-1 with that of STEP 2-2 well and kept for 20 minutes to form Transfection complex at room 3. temperature.

\* Either liquid can be poured into the other microtube to form Transfection complex in this case.

4 Transfer all of this complex to well in which cells were plated (STEP 1) and mix well with gently rocking the plate back and forth.

#### **STEP 3. Incubation**

for 18 to 48 hours. Incubate the cells at 37 Incubation time may be varied according to cells or Plasmid DNA so that previous test to examine appropriate conditions is recommended.

	Recommended Reagent Amounts and Volumes per 1 well				
STEP	1	2-A)		2-B)	
Plate/dish	Medium volume/well	Serum-free medium dilution for Plasmid DNA	Plasmid DNA <sup>*1</sup>	Serum-free medium dilution for LipoTrust <sup>™</sup> <i>EX</i> Gene	LipoTrust <sup>™</sup> EX Gene <sup>*1</sup>
96 well	100 μl	25 μl	0.2 μg	25 μl	0.5 μl
48 well	200 μl	50 μl	0.4 μg	50 μl	1 μl
24 well	500 μl	50 µl	0.8 μg	50 μl	2 µl
12 well	1ml	100 μl	1.6 μg	100 μl	4 μl
6 well	2.5 ml	250 μl	4 μg	250 μl	10 µl
10 cm	15 ml	1.5 ml	24 μ <b>g</b>	1.5 ml	60 μl

Optimum amount of **Oligonucleotides** and **LipoTrust<sup>™</sup> EX Gene** may be varied according to kind of cells or conditions. Variation from 1/4 to 4 times of LipoTrust<sup>™</sup> EX Gene is recommended to obtain optimum transfection efficiency.

**TIP for Transfection** 

- 1. Although good transfection efficiency is observed with LipoTrust<sup>™</sup> EX Gene under serum containing medium (Ex:FEB 10%), use serum free medium at the time of preparation of Transfection complex.
- 2. Use healthy cells
- 3. Use medium free of antibiotics
- 4. Use high quality of oligonucleotide
- 5. Optimum amount of **Plasmid DNA** and **LipoTrust<sup>™</sup>** *EX* Gene may be varied according to kind of cells or conditions. Variation from 1/4 to 4 times of **LipoTrust<sup>™</sup>** *EX* Gene is recommended to obtain optimum transfection efficiency.

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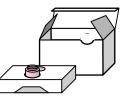
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- Inner box can be used as a vial rack.

- Product appearance is subject to changes without notice.