

# Non-Liposomal Transfection Reagent

Catalogue No.: abx098880

Non-Liposomal Transfection Reagent contains 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 using this reagent. This reagent can be used in the presence of serum and antibiotics.

Recommended volumes of culture medium, nucleic acid and Non-Liposomal Transfection Reagent for transfection in different cell culture plates:

Culture Vessel	Surface Area per well (cm <sup>2</sup> )	Plating Medium Volume (ml)	Dilution Volume (μl)	DNA Transfection		siRNA Transfection	
				DNA (μg)	Non-Liposomal Transfection Reagent (μl)	siRNA (pmol)	Non-Liposomal Transfection Reagent (μl)
96-well plate	0.3	0.1	10	0.2	0.2 - 0.6	10	0.25 - 0.65
48-well plate	1	0.25	25	0.4	0.4 - 1.2	20	0.5 - 1.25
24-well plate	2	0.5	50	0.8	0.8 - 2.4	50	1 - 2.5
12-well plate	4	1	100	1.6	1.6 - 4.8	100	2 - 2.5
6-well plate	10	2	200	4	4 - 12	250	5 - 12.5
35 mm	10	2	200	4	4 - 12	250	5 - 12.5
60 mm	20	5	500	8	8 - 24	500	10 - 25
10 cm	60	10	1000	24	24 - 72	1500	30 - 75
T 25	25	6	500	10	10 - 30	625	12.5 - 31.5
T 75	75	20	1000	30	30 - 90	2000	40 - 100

**Target:** Non-Liposomal Transfection Reagent

**Form:** Liquid

**Storage:** Store between 2-8 °C. Stable for 12 months from date of receipt.

**Sample Type:** Tested cell types: A549, B16-F10, BHK-21, BTC, CEF, CHO, COS-1, DLD-1, HCT-116, HEK-293, HEK-293T, HeLa, HepG2, HL-60, K562, L929, MARC-145, MCF-7, MEF, MIA PaCa-2, Neuro-2a, NIH/3T3, NRK, P815, PANC-1, PT67, SGC-7901, SH-SY5Y, STO, Vero.

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

**Directions for use:** Plasmid DNA Transfection: (for a 24-well plate)

1. Seed cells: plate  $2-6 \times 10^4$  cells in each well so that there is 70-90% confluence at time of transfection.
2. Incubate for 12-24 hours.
3. Dilute 0.8 µg of plasmid with 50 µl of reduced serum Minimal Essential Medium (MEM).
4. Add 1.6 µl of premixed Non-Liposomal Transfection Reagent and mix gently.
5. Allow to stand for 15-20 minutes at room temperature.
6. Add the solution to each well containing cells and medium. Incubate cells at 37 °C in a CO<sub>2</sub> incubator.
7. Change medium 4-6 hours post-transfection (optional). Incubate cells for 18-72 hours.

siRNA Transfection: (for a 24-well plate)

1. Seed cells so that there is 50-70% confluence at time of transfection.
2. Incubate for 12-24 hours.
3. Dilute 50 pmol of siRNA with 50 µl of reduced serum Minimal Essential Medium (MEM).
4. Add 2 µl of premixed Non-Liposomal Transfection Reagent and mix gently.
5. Allow to stand for 15-20 minutes at room temperature.
6. Add the solution to each well containing cells and medium. Incubate cells at 37 °C in a CO<sub>2</sub> incubator.
7. Change medium 4-6 hours post-transfection (optional). Incubate cells for 18-72 hours.

For Reference Only