iN-fect™ in vitro Transfection Reagent

Cat. No. 15081 500 µl

Description

iN-fectTM in vitro Transfection Reagent is a polymer-based transfection reagent. iN-fectTM in vitro Transfection Reagent is proprietary formulation for the transfection of DNA and RNA into eukaryotic cells. iN-fectTM in vitro Transfection Reagent is suitable for many cell types and providing the highly efficiency and low cellular-toxicity.

■ STORAGE

iN-fect[™] in vitro Transfection Reagent is stable for 12 months at 4 °C.

■ Transient transfection of adherent cells

For optimal transfection conditions with iN-fectTM in vitro Transfection Re agent, the cells should be 90-95% confluent. Typically, for transfection in 24-well plates, 5×10^4 to 1×10^5 cells are seeded per well, 24 hours before transfection. For other culture formats, see Table 1.

Table 1. Number of cells to seed before the day of transfection and transfecti on mix preparation for different cell culture formats

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Culture Vessel	Number of Cells to seed	Volume of Medium per vessel (ml)	Amount of Plasmid DNA (µg)	Volume of Transfection Reagent (µI)	Total vol. of DNA/reagent complex (µl)
1well/96well	1×10 ⁴ - 1.7×10 ⁴	0.1	0.05 - 0.2	0.15 - 0.4	10
1well/24well	5×10 ⁴ - 1×10 ⁵	0.5	0.2 - 1.0	0.6 - 2.0	30
1well/6well	2×10 ⁵ - 4×10 ⁵	2.0	1.0 - 3.0	3.0 - 9.0	120
35mm	2×10 ⁵ - 4×10 ⁵	2.0	1.0 - 3.0	3.0 - 9.0	120
60mm	4×10 ⁵ – 8×10 ⁵	5.0	3.0 - 5.0	6.0 - 15.0	300
100mm	1×106 - 6×106	10.0	5.0 - 10.0	15.0 - 30.0	600

Table 2. A guideline for seeding suspension cells prior to transfection in differ ent culture formats recommended

Culture Vessel	Number of Cells to seed	Volume of Medium per vessel (ml)	Amount of Plasmid DNA (µg)	Volume of Transfection Reagent (µI)	Total vol. of DNA/reagent complex (µI)
1well/96well	2×10 ⁴ - 5×10 ⁵	0.05 - 0.2	0.15 - 0.4	0.05 - 0.2	10
1well/24well	1×10 ⁵ – 2×10 ⁵	0.2 - 1.0	0.6 - 2.0	0.2 - 1.0	30
1well/6well	2×10 ⁵ - 5×10 ⁵	1.0 - 3.0	3.0 - 9.0	1.0 - 3.0	120
35mm	5×10 ⁵ – 2×10 ⁶	1.0 - 3.0	3.0 - 9.0	1.0 - 3.0	120
60mm	2×106 - 5×106	3.0 - 5.0	6.0 - 15.0	3.0 - 5.0	300
100mm	5×10 ⁶ – 1×10 ⁷	5.0 - 10.0	15.0 - 30.0	5.0 - 10.0	600

Protocol for transfection

The following protocol is given for transfection in 24-well plates. Use 1 μ l of iN-fectTM in vitro Transfection Reagent and 1 μ g of DNA per well as foll ows. See table 1 or 2 for other culture vessel formats.

- Preparation of iN-fect[™] working transfection reagent:
 Dilute 1 µl iN-fect[™] in vitro Transfection Reagent with 30 µl serum-free medium (without antibiotics), and then mix by gentle pipetting or vortexing f or one second. Incubate the working transfection reagent for 5 minutes at ro om temperature.
 - **Note**: avoiding the iN-fect[™] in vitro Transfection Reagent to contract the pla stic tube surface.
- Add the 1 µg plasmid DNA into the iN-fect™ working transfection reagent an d mix by gentle pipetting.
- Incubate the mixture of DNA and iN-fect™ in vitro Transfection Reagent solution at room temperature for 15 minutes. For some cell line the incubatio n may be up to 30 minutes.
- Add DNA/ iN-fect™ in vitro Transfection Reagent complex to cells in each w ell and mix by gentle shaking plate, incubate cells at 37 °C in CO₂ incubator for 18-48 hrs.



■ Transfection with siRNA

The following protocol is given for transfection in 24-well plates.

- Preparation of iN-fect™ working transfection reagent:
 Dilute 1 ul iN-fect™ in vitro Transfection Reagent with 30 ul serum-free medi
 um (without antibiotics), and then mix by gentle pipetting or vortexing
 for one second. Incubate the working transfection reagent for 5 minutes at r
 oom temperature.
- Add 100 pmol siRNA into the iN-fect™ working transfection reagent and mix by gentle pipetting.
- Incubate the mixture of siRNA and iN-fectTM in vitro Transfection Reagent solution at room temperature for 15 minutes.
- Add siRNA/ iN-fect™ in vitro Transfection Reagent complex to cells in each well and mix by gentle shaking plate, incubate cells at 37 ℃ in CO₂ incubato r for 27-72 hrs.

Fig 1. Fig 2. Orange color : IN-fect™ in vitro Transfection Reagent Green color : Product of R company Blue color : Product of I company Blu

Fig 1. Comparison iN-fectTM in vitro Transfection Reagent with other bran ds. Fig 2. Example shows exceptional efficiency of iN-fectTM in vitro Tran sfection Reagent on 293T cells.

Table 3. Cell lines transfected with iN-fect™ in vitro Transfection Re

293T	C-6	H-4-II-E	HepG2	Jurket	MRC-5	RIE1	SW480
A549	Calu-3	H9C2	HL-60	K562	NCI-H1299	RKO	T274
AGS	Chang	HaCAT	hMSC	L929	NCI-H596	ROS	TCCSUP
B16-F0	CH0	HCT 166	HOS	LoVo	NIH-3T3	Sa052	U251
Bend 3	Cos-1	HCT-8	HT-1080	MC-3T3_E1	P388D1	SH-SY5Y	U20S
ВНК	Cos-7	HEC-1A	HT-29	MCF-10Aras	PC-12	SiHa	U373
BV-2	CV-1	HEK-293	Huh-7	MCF-7	PC-3	SK-BR3	U87-MG
C2C12	DG44	HeLa	HUVEC	MDCK	PT-697(48hl)	SK-0V-3	UMUC3
C3A	EJ	Hep3B	IMCD	MeWo	Raw264.7	SNJ16	Vero
C3H/10T1/2	ES	HePa1c1c	J82	MG-63	RBL-2H3	SNJ-620	W38VA13

RELATED PRODUCTS

Additional materials listed are available from iNtRON. More information is available at http://www.intronbio.com

Product Name	Cat. No.		
DNA-spin™ Plasmid DNA Purification Kit	17096/17097/17098		
DNA-midi™ SV Plasmid DNA Purification K	17252		
it DNA-maxi™ SV Plasmid DNA Purificatio	17253		
n Kit DNA-midi™ GT Plasmid DNA Purifica	17254		
β-Gal Stainer™	21032		

