



普飞生物®

SuperFectin™ II In Vitro siRNA Transfection Reagent

Cat NO.	2103-001	Size:	0.1mL
	2103-003		0.1 mL * 3
	2103-010		1.0mL
	2103-130		1.0mL * 3

Vesion II

May 2012

Introduction:

SuperFectin™ siRNA Transfection Reagent is a novel peptide based siRNA delivery tool. It can provide more than 95% transfection efficiency in variety of mammalian cells, even at 1 nM siRNA. SuperFectin™ reagent was validated as an exceptionally efficient vector for transfecting short (under 100 bp) single or double stranded nucleic acids (such as siRNA, microRNA mimics and DNA oligoes) to variety of mammalian cells.

Important Guidelines for Transfection:

- ✧ SuperFectin™ reagent was formulated as siRNA delivery tool. For most adherent cell lines and primary cells, siRNA at about 5 nM is basically sufficient to obtain up to 90% transfection efficiency,(as observed for Hela, MCF and NIH-3T3). For hard-to-transfect cells, we recommend using siRNA at 30 nM.
- ✧ For maximum transfection efficiency, dilute siRNA (or siRNA/DNA) and SuperFectin™ reagent with SuperFectin™ transfection Buffer (1x).
- ✧ We strongly suggest reconstituting siRNA stock solution at 10 μM, and then add stock solution respectively According to the final concentration.
- ✧ While the standard protocols for siRNA transfection and siRNA/DNA co-transfection are being given below, optimization is often needed for maximal transfection efficiency.
- ✧ SuperFectin™ reagent is NOT interfered by serum and antibiotics, therefore serum and antibiotic containing medium can be used during the entire experiment.

Storage: SuperFectin™ In Vitro siRNA Transfection Reagent is stable for up to 12 months at +4° C after receipt.

Manufactured: In USA

This product is for research use only. Not for use in diagnostic procedures.

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A Standard Protocol for siRNA Transfection of Mammalian Cells

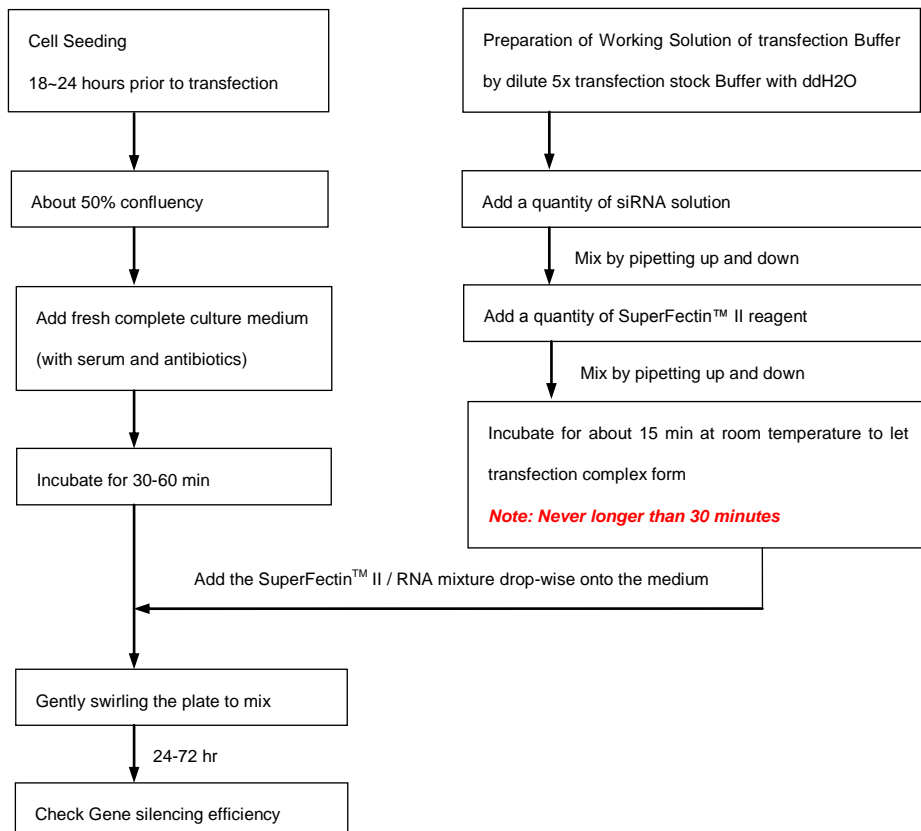


Table 1. A Guideline for siRNA transfection per cell culture vessel

Culture Dish	Growth Medium(mL)	Transfection Buffer(μL)	siRNA(pmoles) Final 5.0	siRNA(pmoles) Final 30nM*	SuperFectin™ II Reagent(μL)
24-well plate	0.5	50	2.5	15*	1.2-1.8*
12-well plate	0.75	75	3.75	23*	2.0-3.0*
6-well plate	1.0	100	5.0	30*	2.4-3.6*
60mm dish	3.0	300	15	90*	7.2-10.8*
100mm dish	8.0	800	40	240*	20-30*
T75 flask	8.0	800	40	240*	20-30*

* For hard-to-transfection cells

A Standard Protocol for siRNA/DNA Co-transfection of Mammalian Cells

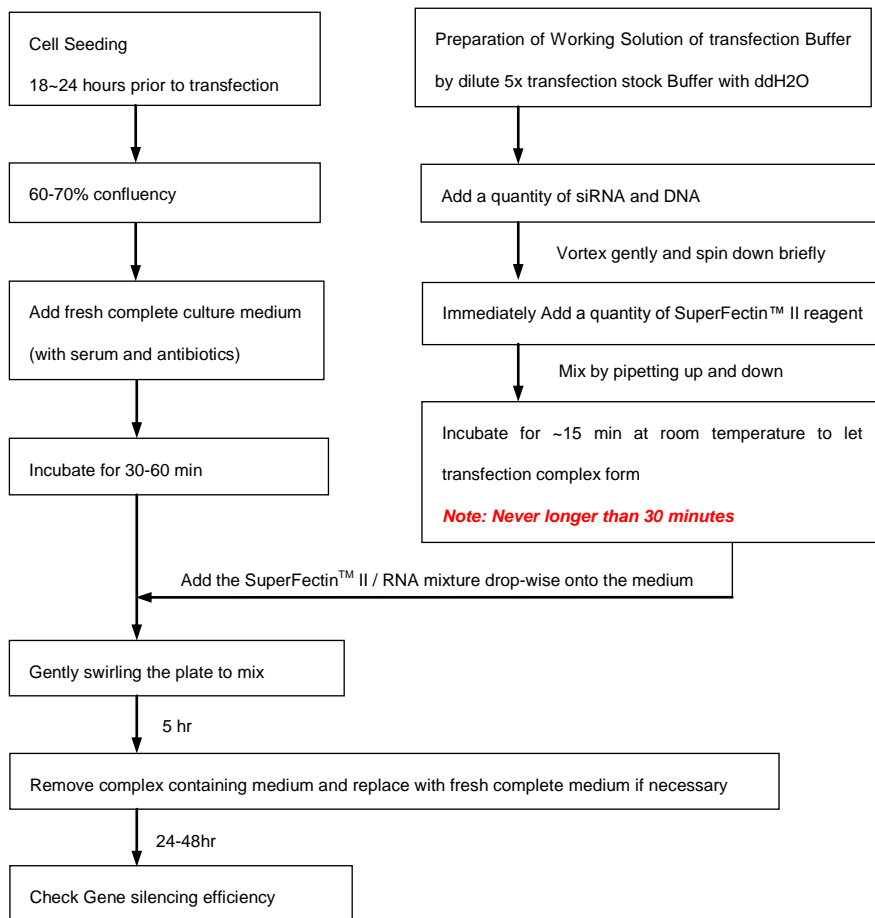


Table 2. A Guideline for DNA & siRNA Co-transfection Per Cell Culture Vessel

Culture Dish	Growth Medium (mL)	Transfection Buffer (μL)	Plasmid DNA(μg)	siRNA(pmoles) Final 5.0 nM	SuperFectin™ II Reagent(μL)
24-well plate	0.5	50	0.25	2.5	1.5
12-well plate	0.75	75	0.375	3.25	2.25
6-well plate	1.0	100	0.5	5.0	3
60mm dish	3.0	300	1.5	15	9
100mm dish	8.0	800	4.0	40	24
T75 flask	8.0	800	4.0	40	24