

PowerFect™ Reagent Short Protocol – siRNA Transfection

DAY 1: Prepare PowerFect™ Transfection Buffer (1x)

working solution and cell seeding

- ▶ Dilute one part of stock solution of PowerFect™ Transfection Buffer (5x) with 4 parts of ddH₂O to make PowerFect™ Transfection Buffer working solution (1x).
- ▶ Cell seeding = ~50% confluency at the day of transfection.

DAY 2: Transfection mix = PowerFect™ reagent Y (μL) with X pmol siRNA at final 5.0 nM

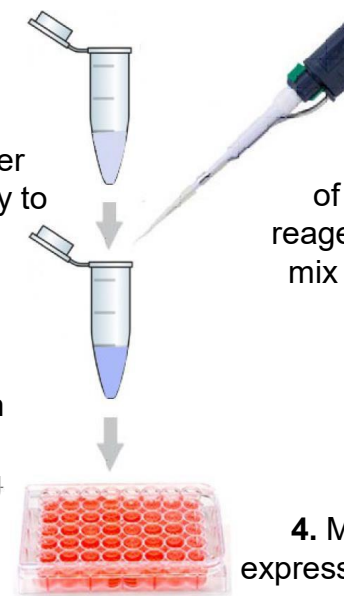
- ▶ Perform transfection in the presence of serum/antibiotics.
- ▶ Use PowerFect™ Transfection Buffer (1x) only.
- ▶ Perform siRNA transfection referring to the picture and table below.

1. Dilute X pmol of siRNA in W μL of PowerFect™ Buffer (1x). Vortex briefly to mix

2. Add Y μL of PowerFect™ reagent. Vortex to mix and incubate 10 min at RT

3. Add transfection mix to the cells in serum- containing medium

4. Measure gene expression Kd 48 to 72 h post transfection



Culture Dish	Growth Medium (mL)	Transfection Buffer (1x) (μL) - <u>W</u>	siRNA (pmol) Final 5.0 nM - <u>X</u>	PowerFect™ Reagent (μL) – <u>Y</u>
24-well	1	50	5.0	1.2
12-well	1.5	75	7.5	2.0
6-well	2	100	10	2.4
60 mm	5	300	25	7.2
10 cm / Flask 75	10	600	50	15

DAY 3~4: Measure knock-down of the gene expression

Visit the following link for complete protocol

<https://signagen.com/products/powerfect-in-vtro-sirna-transfection-reagent-ver-ii/>

