

GenMute™ Reagent Short Protocol – siRNA-DNA Co-transfection

DAY 1: Prepare GenMute™ Transfection Buffer (1x) working solution and cell seeding

- ▶ Dilute one part of stock solution of GenMute™ Transfection Buffer (5x) with 4 parts of ddH₂O to make GenMute™ Transfection Buffer working solution (1x).
- ▶ Cell seeding = ~70% confluency at the day of transfection.

DAY 2: Transfection mix = GenMute™ reagent Z (μL) with X pmol siRNA at final 10 nM and Y μg DNA in W μL of transfection buffer (1x)

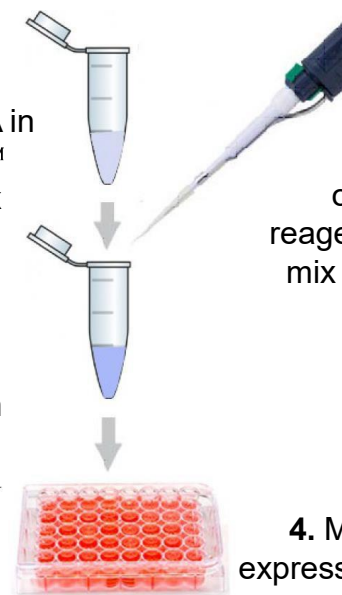
- ▶ Perform transfection in the presence of serum/antibiotics.
- ▶ Use GenMute™ Transfection Buffer (1x) only.
- ▶ Perform siRNA transfection referring to the picture and table below.

1. Dilute X pmol of siRNA & Y μg DNA in W μL of GenMute™ Buffer (1x). Vortex briefly to mix

2. Add Z μL of GenMute™ 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) - <u>W</u> (μL)	Plasmid DNA - <u>Y</u> (μg)	siRNA <u>X</u> pmol Final 10 nM	GenMute Reagent (μL) - <u>Z</u>
24-well	1.0	50	0.25	10	1.5
12-well	1.5	75	0.375	15	2.25
6-well	2.0	100	0.5	20	3
60 mm	5.0	300	1.5	50	7.5
10 cm / flask 75	10	600	4.0	100	15

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

Visit the following link for complete protocol

<https://signagen.com/products/genmute-sirna-transfection-reagent>

