

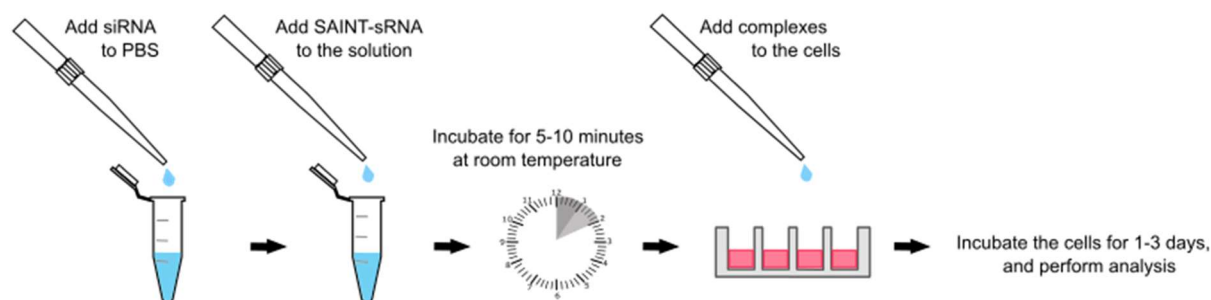
# SAINT-sRNA

## SMALL RNA DELIVERY SYSTEM



This protocol is provided for transfections using SAINT-sRNA (Cat. No. SR-2003-01, SR-2003-02, SR-2003-04). The amounts in this protocol are for a single well of a 24-well plate. Please see Table 1 at the bottom of this page for other formats. This protocol is suitable for many cell types, however for optimal results further optimization for your cell type of choice is possible. An alternative serum-free siRNA transfection protocol can be found at our website: [www.synvoluxproducts.com](http://www.synvoluxproducts.com).

### General transfection protocol:



1. Prepare cells for transfection.
  - **Adherent cells:** one day prior to the transfection, plate cells in 0.5 ml growth medium so that the cells will be 50-80% confluent at the time of transfection.
  - **Suspension cells:** on the day of transfection, plate cells in 0.5 ml of growth medium so that the cells will have reached maximum density when gene knockdown is tested.
2. Allow the vial of SAINT-sRNA to reach room temperature.
3. Vortex the SAINT-sRNA thoroughly, for approximately 30 seconds.
4. Prepare complexes using a siRNA ( $\mu\text{g}$ ) to SAINT-sRNA ( $\mu\text{l}$ ) ratio of 1:40.
5. For each transfection sample, prepare complexes as follows:
  - a. Dilute 0.125  $\mu\text{g}$  siRNA in 50  $\mu\text{l}$  PBS.
  - b. Add 5  $\mu\text{l}$  SAINT-sRNA into the siRNA/PBS solution and resuspend gently.
6. Incubate the mixture for 5-10 minutes at room temperature (solution may appear cloudy).
7. Add the complexes directly to the wells containing the cells.
8. Incubate the cells at 37°C in a CO<sub>2</sub> incubator for 1-3 days prior to testing for gene knockdown.

Table 1. Recommended amounts per well for commonly used multi-well plates

Format	Growth medium ( $\mu\text{l}$ )	siRNA (ng)	PBS ( $\mu\text{l}$ )	SAINT-sRNA ( $\mu\text{l}$ )
96-well	100-200	25	10	1
48-well	250-350	62.5	25	2.5
24-well	400-750	125	50	5
12-well	750-1500	250	100	10
6-well	2000-3000	500	200	20

### Note:

The SAINT-sRNA reagent is stable for at least 1 year at 4°C. Do not freeze!