

## GenJect transfection protocol



Incubate the cells with the complexes overnight. If cytotoxic, the incubation time can be shortened up to 15 min (4 h in average). Change the growth medium. Add normal amount of the full growth medium (2 mL) for cultivation. Culture the cells for 16-72 h before analyzing for the transgene.

\*To reduce the consumption of GenJect and Nucleic Acid, cell transfection should be done in 1/2 of the normal volume of full growth medium (e.g. in 6-well plates or 35 mm Petri dish use 1 mL of full growth medium for transfection and 2 mL for further culturing).

\*\*Transfection efficiency optimization:

- if not cytotoxic, increase GenJect volume to 2, 3 and 4 uL per 1 mL of full growth medium;

- test different DNA/RNA quantity: 0,25, 0,5, 1 and 2 ug per 1 mL of full growth medium.

Keep the ratios (uL of Genjector-U)/(ug of NucleicAcid) between 6/1 to 2/1.

- test different buffers for complex preparation.