TransIT[®]-Insect Transfection Reagent

Quick Reference Protocol

Instructions for MIR 6100, 6104, 6105, 6106, 6110 Full protocol, SDS and Certificate of Analysis available at mirusbio.com/6100

SPECIFICATIONS

Storage	Store <i>Trans</i> IT [®] -Insect Reagent tightly capped at -20°C. Before each use , warm to room temperature and vortex gently.	
Product Guarantee	1 year from the date of purchase, when properly stored and handled.	

▶ PLASMID DNA TRANSFECTION PROTOCOL



Full protocol and additional documentation available at *mirusbio.com/6100*

Fill in volumes below based on culture vessel used for transfection (Table 1).

A. Plate cells

- Plate cells in ____ml complete growth medium (per well). *For adherent cells:* Plate cells at a density of 1.6-3.2 × 10⁵ cells/ml. *For suspension cells:* Plate cells at a density of 3.2-4.8 × 10⁵ cells/ml.
- 2. Culture overnight. Most cell types should be approximately 80% confluent at the time of transfection.

B. Prepare TransIT[®]-Insect Reagent:DNA complexes

- 1. Warm *Trans*IT[®]-Insect to room temperature and vortex gently.
- 2. Place ____µl of Grace's Insect Basal Medium in a sterile tube.
- 3. Add ____µl plasmid DNA. Mix gently by pipetting.
- 4. Add ____µl of TransIT[®]-Insect Reagent. Mix gently by pipetting.
- 5. Incubate at room temperature for 15-30 minutes.

C. Distribute complexes to cells

- 1. Add TransIT[®]-Insect:DNA complex mixture drop-wise to different areas of the well.
- 2. Gently rock plate for even distribution of complexes.
- 3. Incubate 24-72 hours.
- 4. Harvest cells and assay as required.

Culture vessel	24-well plate	12-well plate	6-well plate
Surface area	1.9 cm ²	3.8 cm ²	9.6 cm ²
Complete growth medium	0.5 ml	1 ml	2.5 ml
Serum-free medium	50 µl	100 µl	250 µl
DNA (1 µg/µl stock)	0.5 μl	1 µl	2.5 μl
TransIT [®] -Insect Reagent	1 µl	2 µl	5 µl

Table 1. Recommended starting conditions

Transfection Optimization

Determine the best *Trans* IT*-Insect Reagent:DNA ratio for each cell type. Start with 2 μ of *Trans* IT*-Insect Reagent per 1 μ g of DNA. Vary the concentration of *Trans* IT*-Insect Reagent from 1-4 μ per 1 μ g DNA to find the optimal ratio.

For additional optimization tips, see <u>full protocol</u>. Cell-type-specific recommendations available at **Reagent Agent** mirusbio.com/ra

NOTES



Reagent Agent^{*} is an online tool designed to help determine the best solution for nucleic acid delivery based on in-house data, customer feedback and citations.

Learn more at: mirusbio.com/ra

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