*Trans*IT-HeLaMONSTER® Transfection Kit

Quick Reference Protocol

Instructions for MIR 2900, 2904, 2905, 2906

Full protocol, SDS and Certificate of Analysis available at mirusbio.com/2900

SPECIFICATIONS

Storage	Store both *Trans*IT-HeLa Reagent and MONSTER 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/2900***

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

A. Plate cells

1. Plate cells in ___ml complete growth medium (per well).
2. Culture overnight. Cells should be ≥80% confluent at the time of transfection.

B. Prepare *Trans*IT-HeLa:MONSTER:DNA complexes

1. Warm *Trans*IT-HeLa and MONSTER Reagents to room temperature and vortex gently.
2. Place ___µl of OptiMEM® I Reduced-Serum Medium in a sterile tube.
3. Add ___µl plasmid DNA. Mix gently by pipetting.
4. Add ___µl of *Trans*IT-HeLa Reagent. Mix gently by pipetting.
5. Add ___µl of MONSTER Reagent. Mix gently by pipetting.
6. Incubate at room temperature for 15-30 minutes.

C. Distribute complexes to cells

1. Add *Trans*IT-HeLa Reagent:MONSTER: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.

Table 1. Recommended starting conditions

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
***Trans*IT-HeLa Reagent**	1.5 µl	3 µl	7.5 µl
MONSTER Reagent	1 µl	2 µl	5 µl

▸ Transfection Optimization

Determine the best *Trans*IT-HeLa:DNA and MONSTER:DNA ratio for each cell type. Start with 3 µl of *Trans*IT-HeLa Reagent per 1 µg of DNA. Vary the amount of *Trans*IT-HeLa Reagent from 2–4 µl per 1 µg DNA to find the optimal ratio. Vary the amount of MONSTER Reagent from 0–5 µl per 1 µg of DNA.

For additional optimization tips, see full protocol.

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NOTES

Reagent Agent®

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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