

TransIT®-CHO Transfection Kit

Quick Reference Protocol

Instructions for MIR 2170, 2172, 2174, 2175, 2176

Full protocol, SDS and Certificate of Analysis available at mirusbio.com/2170



SPECIFICATIONS

Storage	Store both <i>TransIT</i> ®-CHO Reagent and CHO Mojo 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/2170

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 *TransIT*®-CHO:CHO Mojo:DNA complexes

1. Warm *TransIT*®-CHO and CHO Mojo 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 *TransIT*®-CHO Reagent. Mix gently by pipetting.
5. Add ___µl of CHO Mojo Reagent. Mix gently by pipetting.
6. Incubate at room temperature for 15-30 minutes.

C. Distribute complexes to cells

1. Add *TransIT*®-CHO:CHO Mojo: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
<i>TransIT</i> ®-CHO Reagent	1.5 µl	3 µl	7.5 µl
CHO Mojo Reagent	0.25 µl	0.5 µl	1.25 µl

► Transfection Optimization

Determine the best *TransIT*®-CHO:DNA and CHO Mojo:DNA ratio for each cell type. Start with 3 µl of *TransIT*®-CHO Reagent per 1 µg of DNA. Vary the amount of *TransIT*®-CHO Reagent from 1–5 µl per 1 µg DNA to find the optimal ratio. Vary the amount of CHO Mojo Reagent from 0–2 µl per 1 µg of DNA.

For additional optimization tips, see [full protocol](#).



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