CHOgro® Complex Formation Solution (100 ml)

Quick Reference Protocol Instructions for MIR 6210 SDS and Certificate of Analysis available at <u>mirusbio.com/6210</u>

Mirus.

SPECIFICATIONS

Storage	Store CHOgro [®] Complex Formation Solution at 4°C, protected from light.
Product Guarantee	As indicated on product label, when properly stored and handled.

▶ PLASMID DNA TRANSFECTION PROTOCOL



Full protocol and additional documentation available at mirusbio.com/6210

CHOgro[®] Complex Formation Solution is a chemically defined, hydrolysate-free and animal-origin-free medium. It is designed for exclusive use with *Trans*IT-PRO[®] Transfection Reagent within the CHOgro[®] Expression System and CHOgro[®] High Yield Expression System for high and reproducible protein yields in suspension CHO derived cells. CHOgro[®] Complex Formation Solution is supplied in a 100 ml bottle format (MIR 6210) and is also a component of the complete CHOgro[®] Expression System (MIR 6260) and CHOgro[®] High Yield Expression System (MIR 6270).

Fill in volumes below based on total culture volume (Table 1).

A. Maintenance of cells

- 1. Maintain suspension CHO cells in complete CHOgro® Expression Medium. Passage cells 18–24 hours prior to transfection to obtain a next day cell density of 4-7 x 10⁶ cells/ml.
- 2. Culture cells overnight at 37°C in 8% CO₂ on an orbital shaker platform.

B. Prepare TransIT-PRO® Reagent:DNA complexes in CHOgro® Complex Formation Solution

- 1. Seed cells at a density of 2-4 x 10⁶ cells/ml immediately before transfection.
- 2. Warm TransIT-PRO® Reagent to room temperature and vortex gently.
- 3. Place ____ml of CHOgro[®] Complex Formation Solution in a sterile tube.
- 4. Add ____µg plasmid DNA. Mix gently but thoroughly.
- 5. Add ____µl of *Trans*IT-PRO[®] Reagent. Mix gently but thoroughly.
- 6. Incubate at room temperature for <u>5 minutes</u> to allow transfection complexes to form.

C. Distribute complexes to cells

- 1. Add *Trans*IT-PRO[®] Reagent:DNA complexes to cultured suspension CHO cells.
- Place cultures at 32°C on an orbital shaker in 8% CO₂. NOTE: Optimal incubation times will depend on cell type, culture temperature, nature of the protein and detection method. See the CHOgro[®] High Yield Expression System <u>full protocol</u> for further optimization suggestions.
- 3. Harvest cells and/or supernatant and assay as required.

Table 1. Volume scaling worksheet for DNA transfections with TransIT-PRO® Transfection Reagent.

Starting conditions per milliliter of complete growth medium							
	Per 1 ml		Total culture volume		Reagent quantities		
CHOgro [®] Complex Formation Solution	0.1 ml	×	ml	=	ml		
Plasmid DNA (1 μg/μl stock)	1 µl	×	ml	=	µl		
TransIT-PRO [®] Transfection Reagent	1 µl	×	ml	=	µl		

For Research Use and Further Manufacturing; Not for Administration into Humans

CHOgro® Complex Formation Solution is sterile-filtered, animal-origin-free,

and manufactured under cGMP conditions in an ISO-compliant facility.

► 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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