CHOgro® Complex Formation Solution (100 ml)

Quick Reference Protocol

Instructions for MIR 6210

SDS and Certificate of Analysis available at mirusbio.com/6210

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 × 10^6 cells/ml.
2. Culture cells overnight at 37°C in 8% CO_2 on an orbital shaker platform.

B. Prepare *Trans*IT-PRO® Reagent:DNA complexes in CHOgro® Complex Formation Solution

1. Seed cells at a density of 2 - 4 × 10^6 cells/ml immediately before transfection.
2. Warm *Trans*IT-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 5 minutes to allow transfection complexes to form.

C. Distribute complexes to cells

1. Add *Trans*IT-PRO® Reagent:DNA complexes to cultured suspension CHO cells.
2. Place cultures at 32°C on an orbital shaker in 8% CO_2. 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 full protocol for further optimization suggestions.
3. Harvest cells and/or supernatant and assay as required.

Table 1. Volume scaling worksheet for DNA transfections with *Trans*IT-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
*Trans*IT-PRO® Transfection Reagent	1 µl	×	_____ml	=	_____µl

For Research Use Only

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

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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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