CHOgro® Expression Medium

Quick Reference Protocol

Instructions for MIR 6200, 6202 SDS and Certificate of Analysis available at mirusbio.com/6200



SPECIFICATIONS

Storage	Store CHOgro® Expression Medium at 4°C, protected from light.
Product Guarantee	As indicated on product label, when properly stored and handled.

CHOgro® Expression Medium is a chemically defined, hydrolysate-free and animal-origin-free medium manufactured using cGMP-compliant processes in an ISO-compliant facility. CHOgro® Medium is formulated to support high efficiency transection and provide high density cell growth. In addition, many suspension CHO cells (e.g. Freestyle™ CHO-S and ExpiCHO-S™) can easily grow in CHOgro® Medium with minimal adaptation. CHOgro® Expression Medium is supplied in 1000 ml bottle (MIR 6200) or 10 L polybag (MIR 6202) formats and is also a component within the CHOgro® Expression System (MIR 6260) and CHOgro® High Yield Expression System (MIR 6270).

Media Preparation

Prior to use, CHOgro® Expression Medium requires the following supplementation:

Media Supplements	Per 1000 ml
L-Glutamine (200mM stock solution, MIR 6240)	20 ml
Poloxamer 188 Solution (10% stock solution, MIR 6230)	30 ml

NOTE: Store supplemented media at 4°C, protected from light.

Adaptation of suspension CHO cells to CHOgro® Expression Medium

From Cryopreserved Cell Stock

When bringing suspension CHO cells out of cryopreservation, use supplemented CHOgro® Expression Medium to dilute cells immediately post-thaw, typically to a density of $0.5 - 1 \times 10^6$ cells/ml. Incubate cells in a shake flask at an appropriate rpm (e.g. 125 rpm for a 1.9 cm orbital throw) at 37°C in 8% CO₂. Monitor cell growth and viability daily. When viability reaches \geq 98% and the cells are doubling every \leq 24 hours, the cells are fully adapted.

From Ongoing Culture

If cells are cultured in an alternate media formulation, cells must be adapted to CHOgro® Expression Medium prior to transfection. For adaptation, seed cells at a density of $3-5 \times 10^5$ cells/ml in a mix of 75% current media and 25% complete CHOgro® Medium for 2-4 passages or until the cells are doubling normally and viability is >95%. Increase the ratio of complete CHOgro® Media in 25% increments and monitor cell health and viability as described above. Cells are fully adapted when viability reaches \geq 98% and cells are doubling every \leq 24 hours in 100% CHOgro® Medium. Continue to culture cells in a shake flask at an appropriate rpm (e.g. 125 rpm for 1.9 cm orbital throw) at 37°C, 8% CO₂ and monitor cell growth and viability frequently.

Maintenance of suspension CHO cells in CHOgro® Expression Medium

For best results, subculture CHO suspension cells to a density of $1-3 \times 10^6$ cells/ml. DO NOT allow cells to grow to a density higher than 1×10^7 cells/ml or passage to a density lower than 2.5×10^5 cells/ml during continuous culture. Subculture every 1-4 days to maintain the desired cell density. Monitor cell density and viability frequently (i.e. daily if possible).

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

CHOgro® Expression Medium is sterile-filtered, animal-origin-free, and manufactured under cGMP conditions in an ISO-compliant facility.



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



SDS and Certificate of Analysis available at mirusbio.com/6200

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