

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, serum-free growth medium that permits high density growth and large-scale transfection of suspension CHO cells. Many suspension CHO cells (e.g. FreeStyle™ CHO-S®) readily adapt to CHOgro® Expression Medium, thus eliminating the time and labor typically required for a sequential adaptation process. CHOgro® Expression Medium is supplied in 1000 ml bottle (MIR 6200) or 10 L polybag (MIR 6202) formats.

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 to a density of 1×10^5 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 > 95% and the cells are doubling every ≤ 24 hours, the cells are fully adapted.

From Ongoing Culture

If cells are being cultured in an alternate media formulation, centrifuge the cells at 300 x g for 5 minutes and resuspend the cell pellet in 100% CHOgro® Expression Medium at a density of 2×10^5 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 > 95% and the cells are doubling every ≤ 24 hours, the cells are fully adapted.

NOTE: For CHO-S® cells grown in FreeStyle™ CHO Expression Medium, a 24 hour adaptation period to CHOgro® Expression Medium is sufficient for high titer transient protein production.

Maintenance of suspension CHO cells in CHOgro® Expression Medium

For best results, subculture CHO suspension cells to a density of $1-3 \times 10^5$ cells/ml. DO NOT allow cells to grow to a density higher than 1×10^7 cells/ml or lower than 2.5×10^5 cells/ml during continuous culture. Subculture every 1-4 days to maintain desired cell density.

For R&D and Further Manufacturing Use

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

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Reagent Agent®

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