Elevate your workflow with

The Gibco Efficient-Pro Medium and Feeds system

and join the mAb manufacturing revolution

The Gibco™ Efficient-Pro™ Medium and Feeds system is the latest mAb manufacturing solution from Thermo Fisher Scientific. Consisting of a high-performance medium and a choice of two premium feeds, our innovative system can help you optimize your process and support you to reduce development time, helping accelerate your mAb to market.



Gibco™ Efficient-Pro™ Medium

An advanced, next-generation medium designed to work optimally with CHO cell lines with the Efficient-Pro feeds.

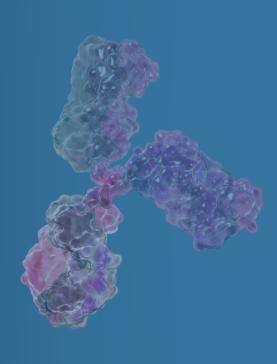
Gibco™ Efficient-Pro™ Feeds 1 and 2

Two innovative, single-part feeds, formulated specifically for use in key bioproduction cell lines: Feed 1 for CHO-K1 and CHO-K1 GS cell lines, and Feed 2 for DG-44, CHO-S, and CHO-K1 GS cell lines.

Process development

Designed using advanced multi-omics and bioinformatics, the Efficient-Pro system is a ready-to-use workflow solution that can fit seamlessly into your process.

- Maintain strong mAb titers and improve protein quality by choosing the Efficient-Pro system
- Improve performance by utilizing feeds specifically formulated for your cell line
- Implement straight off the shelf, or use as a starting point for further customization and optimization.

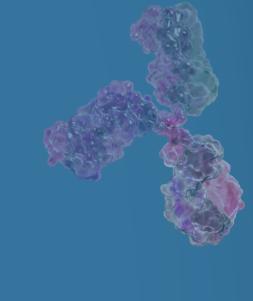


Expansion and production

The Efficient-Pro system is designed to help maximize productivity through sustained culture health and improved cell viability, as well as lower levels of toxic metabolite production.

- Achieve up to 238% greater titers, along with up to 180% greater specific productivity, in key CHO bioproduction cell lines compared to other suppliers' systems^[1].
- Maintain longer production runs of up to 17 days, allowing for even greater productivity from existing processes with limited re-optimization.
- Realize performance improvements in a wide variety of CHO cell lines, including DXB11.

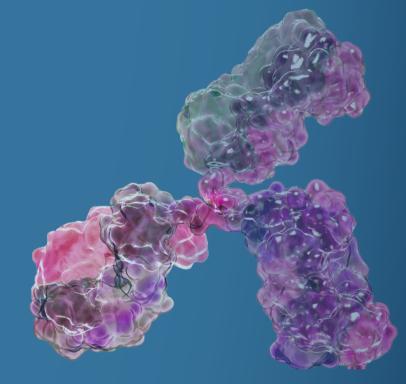




Storage and reconstitution

All components of the Efficient-Pro system are available in liquid and our proprietary Gibco Advanced Granulation Technology (AGT™) format, helping simplify reconstitution.

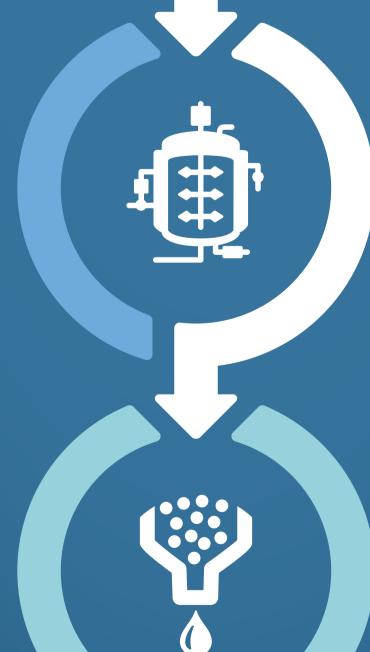
- Speed up media preparation compared to conventional dry powder media with a format designed for rapid dissolution.
- Reduce time and labor costs and the risk of manual errors with a pH and osmolality preadjusted format.
- Prepare your medium and feed in about 1 hour, compared to 4+ hours for alternative dry powder media formats.

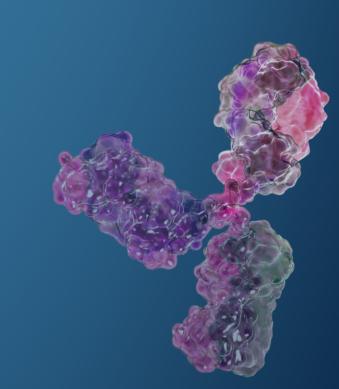


Feeding

The Efficient-Pro feeds have been designed as single-part solutions, specifically tailored to different CHO cell lines.

- Simplify reconstitution and feeding protocols, with fewer external components required.
- Limit precipitation and reduce the need for feed line flushing or replacement with formulations that are stable at room temperature during a 14-day bioproduction process.
- Use up to 50% less feed volume with the nutritionally complete, balanced Efficient-Pro feeds.





Downstream processes

The Efficient-Pro system also facilitates the streamlining of downstream processes.

- Maintain titers with lower cell densities, reducing the amount of host cell proteins and waste materials that need to be removed during filtration.
- Achieve critical quality attribute targets, with optimized glycosylation patterns, charge-variant profiles, and protein aggregation levels.

Level up your mAb manufacturing workflow with confidence

Developed with chemically defined and animal origin-free formulations, the Efficient-Pro medium and feeds have been designed to help you maintain batch-to-batch consistency. Additionally, through Thermo Fisher's global network of harmonized facilities and manufacturing redundancy, you can reduce the risk of supply disruption, enabling you to focus on your process.

Reference [1] Thermo Fisher Scientific (2022) Efficient-Pro Medium and Feeds improve productivity in CHO-K1, CHO-S, and DG44 cells.

http://assets.thermofisher.com/TFS-Assets/BPD/Application-Notes/efficient-pro-medium-and-feeds.pdf