

BalanCD Gal Supplement

Chemically-defined, animal component-free supplement for enhanced galactosylation

The alteration of protein glycoprofiles can be a time-consuming process. BalanCD Gal Supplement provides an efficient method of achieving desired results by enhancing the galactosylation of proteins with a systemized, efficient feeding schedule.

- Compatible with any basal growth medium for a wide range of cell lines
- Simplified, scalable protocol
- Enhanced formula requires a lower concentration to achieve desired outcome—contributing to improved efficiency and streamlined workflow
- Chemically-defined, animal component-free, and cGMP manufactured to support commercial applications
- Designed to incorporate seamlessly into the BalanCD CHO Media Platform for efficient growth and production

Achieve Improved Protein and Antibody Production

The ability to produce high product titers and excellent protein quality is critical for the generation of effective therapeutic biomolecules. Glycosylation modifications, including galactosylation, helps to achieve this critical quality aspect by enhancing protein characteristics and antibody efficacy. BalanCD Gal Supplement from FUJIFILM Irvine Scientific delivers increased galactosylation, through the addition of *N*-linked glycan moieties, to improve protein production and help develop more therapeutically effective antibodies, while supporting an efficient, streamlined workflow.

Enhance glycosylation for improved protein quality and antibody efficacy



Increase Galactosylation with a Simplified Feeding Protocol

Gal supplementation increases galactosylation with a single feeding in CHO-fed batch cultures.

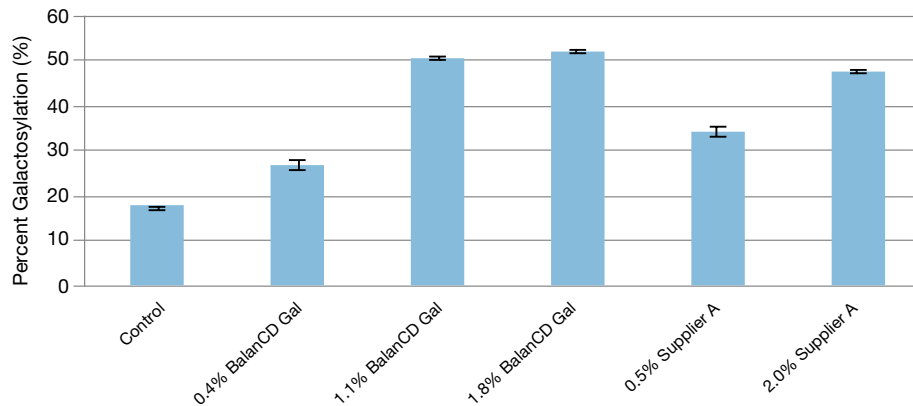


Figure 1. Percent galactosylation from CHO fed-batch cultures expressing a model antibody. BalanCD Gal Supplement was added on day 7 of cultures at 0.4-1.8% (v/v). Supplement from Supplier A was added according to the manufacturer's protocol, on days 2-10 every other day for a total of 0.5-2.0% (v/v). The fed-batch control (Control) without any supplementation resulted in about 15% antibody galactosylation. BalanCD Gal Supplement resulted in up to 50% galactosylation with as little as 1.1% supplementation. The supplement from Supplier A resulted in about 45% galactosylation even at the highest recommended concentration of 2.0%. Data shown represents the average of two replicate cultures.

Modulate glycosylation for cohesive control of antibody product quality

BalanCD Gal Supplement maintains low Mannose5 levels while achieving desired glycan profiles of CHO-expressed antibodies.

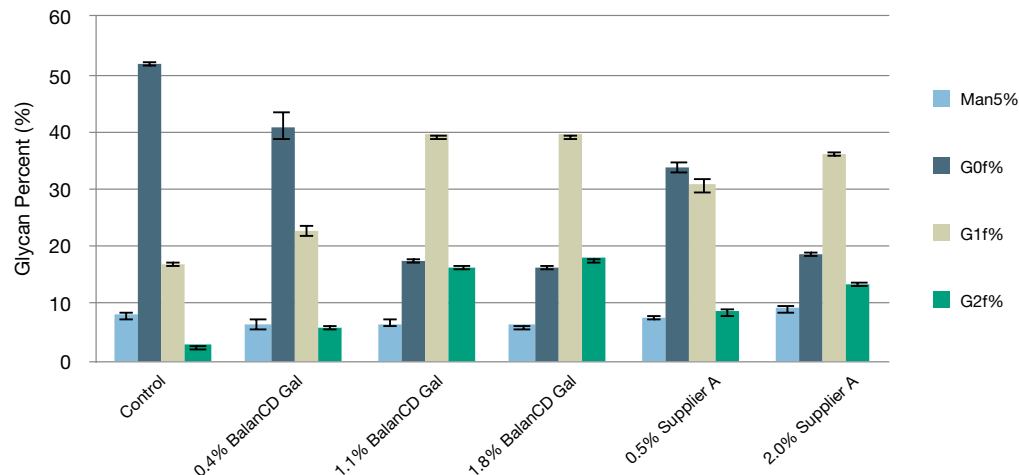


Figure 2. BalanCD Gal Supplement achieves desired glycan percentages in fed-batch CHO cultures. Glycan levels from the experiment described in Figure 1 were measured. BalanCD Gal Supplement demonstrated decreased G0f levels, increased G1f and G2f, and low Man5 levels compared to the control and another commercially available supplement. Data shown represents the average of two replicate cultures.



Seamless Incorporation with BalanCD CHO Media Platform

BalanCD Gal Supplement incorporates seamlessly with the BalanCD CHO Media Platform—an extended portfolio of chemically-defined, animal component-free growth and feed media formulated using Rational Culture Media Design. This multidimensional approach uses sequential, complementary development methods to leverage our scientists' knowledge of the effects of components and process parameters. The result is a media platform that delivers the precise combination of nutrients to maximize productivity, growth, and viability of CHO cell lines.

Develop High-Quality Biotherapeutics for Bringing Therapies to Life

BalanCD Gal Supplement delivers the ability to develop higher quality, more effective antibodies, biosimilars, biomolecules, and other therapeutic proteins that can lead to life-changing therapies.

To learn more about BalanCD Gal Supplement or the BalanCD CHO Media Platform, please contact your representative at getinfo@irvinesci.com or visit www.irvinesci.com/contact-us.



Ordering Information

Item	Catalog #	Size*
BalanCD Gal Supplement	91175	100 mL 1 L

Related Products

Item	Catalog #	Size*
BalanCD CHO Growth A - Liquid	91128	1 L
BalanCD CHO Growth A - Powder	94120	10 L 100 L
BalanCD CHO Feed 4 - Powder	94134	1 L 10 L

*Custom sizes and packaging available on request

Life.Support.

With over 45 years of industry experience, FUJIFILM Irvine Scientific is focused on providing the highest quality cell culture media. We are dedicated to bringing life to products, and ultimately, to the patients who benefit from the resulting therapeutic advances. World-renowned for our unwavering commitment to full-spectrum partnership, FUJIFILM Irvine Scientific has defined the industry standard in support, innovation, and best-in-class turnaround time.

FUJIFILM
Value from Innovation

 IrvineScientific