

BalanCD Gal Supplement

Catalog #	Product	Size
91175	BalanCD Gal Supplement	100 mL and 1 L

Intended Use

A single, ready-to-use, complete cell culture medium supplement designed to increase biomolecule *N*-galactosylation with a variety of CHO cell lines, cell culture media, and biomolecule production applications. This product is for research or further manufacturing purposes and is not intended for injection or diagnostic procedures.

Product Description

BalanCD Gal Supplement is a chemically defined (CD), animal component-free (ACF) additive designed to be used with a wide variety of CHO cell lines, cell culture media, and biomolecule production applications, including protein and antibody production. BalanCD Gal Supplement is able to increase biomolecule *N*-galactosylation while having minimal to no impact on cell growth and titer when added to production cultures. Optimization of usage conditions by the end user may be required for the desired applications and/or specific cell types. BalanCD Gal Supplement is manufactured under cGMP regulations.

Quality Assurance

All quality control test results are reported on a lot specific Certificate of Analysis which is available upon request.

Storage Instructions and Stability

Store at 15-30°C away from light for up to two years. Handle the supplement using aseptic techniques to avoid contamination. Do not use after the assigned expiration date.

Precautions

This product is for research use or further manufacturing use only. Not for injection or diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical uses has not been established. This reagent should not be used beyond twelve months indicated in the storage instructions. Please refer to the Safety Data Sheet for information regarding hazards and safe handling practices.

Directions for Use

BalanCD Gal Supplement is designed for a bolus addition on day 7 of a 14-day fed-batch culture at 0.4-2.0% (v/v) of the total cell culture volume. Further optimization of the concentration and/or supplementation schedule may be done by the end user to obtain a desired level of galactosylation for specific cell lines and applications. For batch and perfusion cultures, add BalanCD Gal Supplement into the current culture strategy.

Example Data

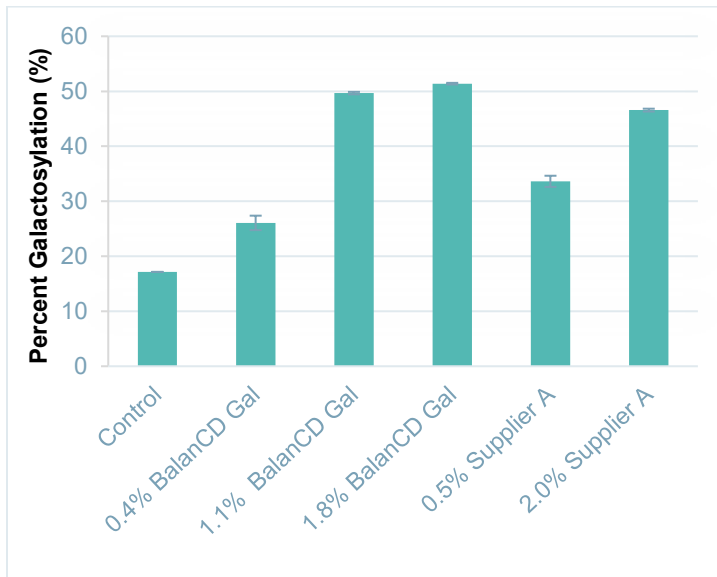


Figure 1. Percent galactosylation from 14-day, CHO fed-batch cultures expressing a model antibody. BalanCD Gal Supplement was added on day 7 of cultures at 0.4-1.8% (v/v). Supplement from Supplier A was added on days 2-10 every other day for a total of 0.5-2.0% according to the manufacturer's recommended protocol. 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.

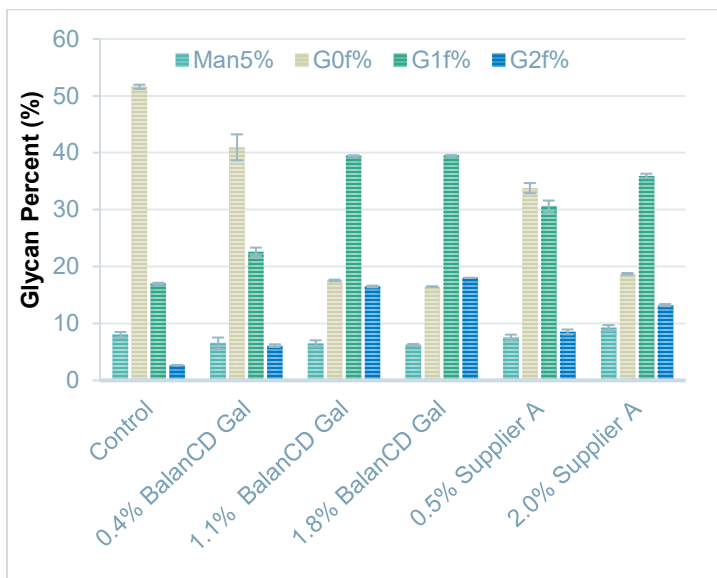


Figure 2. Overall glycan profile from CHO fed-batch cultures expressing a model antibody. The BalanCD Gal Supplement used at 0.4%, 1.1%, and 1.8% decreased G0f levels by 21%, 66%, and 68%, respectively, while maintaining low Man5 levels. The supplement from Supplier A used at 0.5% and 2.0% decreased G0f levels by 35% and 64%, respectively, but had a slight increase in Man5 levels when used at 2.0%. Data shown represents the average of two replicate cultures.

Related Products

Catalog #	Product	Size
91128	BalanCD CHO Growth A medium, liquid	1 L
94120	BalanCD CHO Growth A medium, powder	10 L and 100 L
94134	BalanCD CHO Feed 4, powder	10 L

Technical Support

CONTACT US

For more information or assistance contact Customer Service at:

- Email: fitsmrequest@fujifilm.com
- Direct line: +1 800 577 6097

WEBSITE RESOURCES

Visit the website at www.irvinesci.com for technical resources and information including:

- Safety Data Sheets (SDS)
- Certificate of Analysis (CoA) (when available)
- FAQs
- Product literature
- Complete list of offices and contact information by country

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Effective Date: