

BalanCD CHO Feeds

Catalog #	Product	Size
91127	BalanCD CHO Feed 1	1 L liquid*
94119	BalanCD CHO Feed 1	10 L powder*
91129	BalanCD CHO Feed 2	1 L liquid*
94121	BalanCD CHO Feed 2	10 L powder*
99471	BalanCD CHO Feed 3	1 L liquid*
94118	BalanCD CHO Feed 3	10 L powder*

*Additional package sizes are available upon request.

Intended Use

For research or further manufacturing use only.

Product Description

BalanCD CHO Feeds are chemically-defined feed media designed to optimize cell growth and protein production in CHO cells when used in a fed batch process. These feeds have the capability to more than double the growth and protein production when compared to a batch culture. BalanCD CHO Feed 1 was designed to be used in conjunction with BalanCD CHO Growth A.

Quality Assurance

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

Formula

BalanCD CHO Feeds are formulated using chemically-defined components in high concentrations based on typical CHO cell requirements. These feeds contain no protein hydrolysates or any other undefined components. These media contain no antibiotics or antimycotics.

Storage Instructions and Stability

Handle using aseptic techniques to avoid contamination. Store liquids at 2-8°C, away from light. Store powders dry at 2-8°C. Do not use after the indicated expiration date. Do not use any bottle of medium which shows evidence of particulate matter or cloudiness.

Directions for Use

When evaluating a new fed-batch process it is recommended to try several volumes of feed and feeding strategies. We recommend starting with a feed volume of 10-50% of the initial culture volume.

Process development can be conducted to determine a more optimal concentration and feeding schedule for a specific cell line and process.

PREPARATION FROM POWDER

1. Add appropriate amount of powder medium (refer to table below) to WFI or deionized/distilled water in an appropriately sized container.
2. Mix the solution for until the powder is well dissolved, the solution may still appear cloudy at this point.
3. Add 2.2g/L sodium bicarbonate to the solution. Mix until sodium bicarbonate is completely dissolved.
4. For BalanCD CHO Feed 1 stir solution until pH reaches a minimum of 6.8-7.2. Alternatively, sodium hydroxide (5N) can be added to raise pH if desired. For BalanCD CHO Feeds 2 and 3, add appropriate amount of sodium hydroxide (5N) to media (refer to table below).
5. Measure osmolality of the solution. For expected value refer to table below.
6. Sterile filter through a 0.2 µm filter membrane into a sterile vessel.
7. Store at 2-8°C, in the dark for up to 6 months.

Media	BalanCD CHO Feed 1	BalanCD CHO Feed 2	BalanCD CHO Feed 3
Powder P/N	94119	94121	94118
Amount of Powder (g/L)	55.78	52.10	65.96
Amount of Water (mL/L)	980	970	960
Amount of NaOH (mL/L)	0	4.5	4.5
Expected pH	6.8-7.2	7.0-7.6	7.0-7.6
Expected Osmolality (mOsm/kg)	425-445	415-445	540-580

FEED EVALUATION

Below is an example of feed evaluation

1. Determine working volume of culture (w.v.), i.e. 30 mL in 125 mL shake flask.
2. Inoculate cells in basal medium in 30 mL w.v.
3. On culture days 1, 3, and 5 feed 5% of the initial w.v. with a BalanCD CHO Feed, for a total 15% of initial w.v. over 3 events. Feed can also be added as a single bolus feeding in one feed event (e.g., on day 3).

Technical Support

CONTACT US

For more information or assistance contact Customer Service at:

- Email: fisitmrequest@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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