

OptiVibro® CHO Serum-Free Feed Medium TransExp CA07

Chemically defined feed for high-density CHO transient expression

Animal-origin-free | Protein-free | Liquid and powder formats

Product overview

OptiVibro® CHO Serum-Free Feed Medium TransExp CA07 is an animal-origin-free, chemically defined feed designed for high-density transient transfection of suspension CHO-K1 and CHO-S cells, especially ExpiCHO-S cells. Used together with OptiVibro® CHO Serum-Free Medium TransExp CE06, it supports recombinant protein production without additional glutamine supplementation.

Key features

- Animal-origin-free and chemically defined formulation.
- Designed for high-density transient transfection of suspension CHO cells.
- Optimized for CHO-K1 and CHO-S cells, including ExpiCHO-S cells.
- Does not require additional glutamine supplementation.

Typical applications

Transient recombinant protein expression in suspension-adapted CHO cells, including high-density transfection workflows for research and process development.

GENERAL CULTURE GUIDANCE For a starting process, pair TransExp CA07 with TransExp CE06 basal medium. At 18-24 hours after transfection, add CA07 at 5% of the initial culture volume, adjust glucose to 22 g/L, and shift the culture to 33°C.

General product characteristics

Parameter	General characteristic
Classification	Chemically defined, serum-free, protein-free, animal-origin-free
Product type	CHO transient-expression feed medium
Compatible cell lines	Suspension CHO-K1 and CHO-S; especially ExpiCHO-S
Form	Liquid or dry powder
Glutamine	No additional glutamine supplementation required
Storage	2-8°C; protect from light. Store powder dark and dry.
Transport	Below 10°C; protect from light
Shelf life	Liquid: 12 months. Powder: 24 months. See product label for expiry.

Note: General information is shown. Product label and lot-specific Certificate of Analysis govern release.

PRODUCT INFORMATION

Ordering, storage and use

Ordering information

Catalog No.	Product name	Size
CA000-N071S	OptiVibro® CHO Serum-Free Feed Medium TransExp CA07	50 mL liquid
CA000-N072	OptiVibro® CHO Serum-Free Feed Medium TransExp CA07	100 mL liquid
CA000-N073	OptiVibro® CHO Serum-Free Feed Medium TransExp CA07	1,000 mL liquid
CA000-N074	OptiVibro® CHO Serum-Free Feed Medium TransExp CA07 (Powder)	100 mL powder
CA000-N075	OptiVibro® CHO Serum-Free Feed Medium TransExp CA07 (Powder)	1 L powder
CA000-N076	OptiVibro® CHO Serum-Free Feed Medium TransExp CA07 (Powder)	10 L powder

Catalog availability and pack sizes should be confirmed at the time of order.

Storage, transport and shelf life

Storage. Store at 2-8°C and protect from light. Store powder in a dark, dry environment.

Transportation. Maintain below 10°C and protect from light during transport.

Shelf life. Liquid: 12 months; powder: 24 months when stored as directed. Confirm the labeled expiration date before use.

Powder reconstitution

1. Charge a clean vessel with 60% of the final volume of WFI or cell-culture-grade water.
2. Slowly add 198.57 g/L TransExp CA07 powder and mix for 60 minutes.
3. Adjust to pH 8.50-8.60 with 5 N NaOH, then continue mixing for 60 minutes.
4. Adjust to pH 7.00-7.10 with 6 N HCl, then continue mixing for 10 minutes.
5. Bring to final production volume and mix for 10 minutes.
6. Verify final pH (6.80-7.50) and osmolality (280-310 mOsm/kg, measured after 5-fold dilution).
7. Sterilize immediately through a 0.22 µm membrane filter. Store reconstituted medium at 2-8°C, protected from light, until use.

Note: Use the two-step pH adjustment sequence shown. Consult the product manual for full reconstitution and filtration guidance.

Starter transient-expression guidance

Suggested culture conditions are 37°C, 80% relative humidity, 5% CO₂, and 120 rpm. Before transfection, use cells that have completed at least three consistent passages, with viability >90%; seed in fresh TransExp CE06 at 3.5×10^6 cells/mL on Day -1.

Process stage	Timing	Recommended action
Initial feed	D1, 18-24 h post-transfection	5% CA07; glucose 22 g/L; shift to 33°C
Basic strategy	D1 only	Single initial feed
Enhanced strategy	D1 and D3	5% CA07 at each feed
Enhanced strategy	D1, D3, and D6	5% CA07 at each feed

TRANSFECTION STARTING POINT For a 20 mL culture, the manufacturer protocol uses 6.0×10^6 cells/mL after transfection, 1.5 µg DNA/mL, and a DNA:PEI ratio of 1:4. Optimize by DoE for the cell line and target protein.

INTENDED USE For research and manufacturing use only. Not intended for diagnostic or therapeutic use. This general datasheet does not replace the product label, user manual, Certificate of Analysis, or Safety Data Sheet.