

OptiVibro® CHO Serum-Free Basal Medium TransExp CE06

Chemically defined basal medium for high-density CHO transient expression

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

Product overview

OptiVibro® CHO Serum-Free Basal Medium TransExp CE06 is an animal-component-free, chemically defined basal medium 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 Feed Medium TransExp CA06, it supports recombinant protein production without additional glutamine supplementation.

Key features

- Animal-component-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 CE06 with TransExp CA06 feed medium. At 18-24 hours after transfection, add CA06 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, animal-component-free
Product type	CHO transient-expression basal 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	Liquid: below 25°C; powder: 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
CE000-N051	OptiVibro® CHO Serum-Free Basal Medium TransExp CE06	500 mL liquid
CE000-N052	OptiVibro® CHO Serum-Free Basal Medium TransExp CE06	1,000 mL liquid
CE000-N053	OptiVibro® CHO Serum-Free Basal Medium TransExp CE06 (Powder)	1 L powder
CE000-N054	OptiVibro® CHO Serum-Free Basal Medium TransExp CE06 (Powder)	10 L powder
CE000-N055	OptiVibro® CHO Serum-Free Basal Medium TransExp CE06 (Powder)	100 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. Liquid: maintain below 25°C; powder: maintain below 10°C. 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 80% of the final volume of WFI or cell-culture-grade water.
2. Slowly add 23.52 g/L TransExp CE06 powder and mix for 20 minutes.
3. Adjust to pH 8.00-8.10 with 5 N NaOH (about 3.6 mL), then mix for 30 minutes.
4. Adjust to pH 7.00-7.10 with 6 N HCl (about 1.6 mL), then mix for 10 minutes.
5. Add 2.2 g/L NaHCO₃ and mix for 10-15 minutes; adjust pH to 6.90-7.10.
6. Bring to final production volume and mix for 5 minutes. Verify final pH (6.90-7.50) and osmolality (275-305 mOsm/kg).
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. The product label, user manual, and lot-specific Certificate of Analysis govern release specifications.

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 × 10⁶ cells/mL on Day -1.

Process stage	Timing	Recommended action
Initial feed	D1, 18-24 h post-transfection	5% CA06; glucose 22 g/L; shift to 33°C
Basic strategy	D1 only	Single initial feed
Enhanced strategy	D1 and D3	5% CA06 at each feed
Enhanced strategy	D1, D3, and D6	5% CA06 at each feed

TRANSFECTION STARTING POINT For a 20 mL culture, the manufacturer protocol uses 6.0 × 10⁶ 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.