

LLT LEADING LIFE TECHNOLOGIES

CELL CULTURE / SERUM-FREE MEDIA

OptiVibro® 293 Serum-Free Feed Medium HA02

Chemically defined feed supplementation for transient protein expression and viral-vector workflows

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

Product overview

OptiVibro® 293 Serum-Free Feed Medium HA02 is a chemically defined, serum-free feed medium without animal-derived components. It is designed to support high-density growth and transfection of compatible suspension-adapted HEK 293 cell lines, helping enhance transient protein expression and viral-vector production workflows.

Key features

- Animal-origin-free, protein-free, serum-free, and chemically defined.
- Formulated to support expansion, high-density growth, and plasmid transfection of compatible HEK 293-derived cell lines.
- Supports high-yield transient protein expression when used with an appropriate OptiVibro® 293 basal medium.
- Compatible with protein and viral-vector process development, scale-up, and manufacturing workflows.
- Single-feed process option supports straightforward process operation.

Typical applications

Transient expression of recombinant proteins and antibody candidates; expansion and transfection of suspension-adapted HEK 293 cultures; lentiviral and other viral-vector process development; and scale-up and commercial manufacturing workflows.

GENERAL CULTURE GUIDANCE Use HA02 with a compatible 293 basal medium and optimize the feeding strategy, timing, and feed volume for the selected cell line, basal medium, transfection method, and process objective. For protein expression, OptiVibro® 293 Serum-Free Medium TransExp HE02 is a suitable related basal medium.

General product characteristics

Classification	Chemically defined, serum-free, protein-free, animal-origin-free
Product type	HEK 293 cell culture feed medium
Compatible cell lines	Suspension-adapted HEK 293-derived cell lines, including 293F and other suitable 293 cell lines
Form	Liquid or dry powder
Not formulated with	Animal-derived components
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
HA000-N011	OptiVibro® 293 Serum-Free Feed Medium HA02	100 mL liquid
HA000-N012	OptiVibro® 293 Serum-Free Feed Medium HA02	1,000 mL liquid
HA000-N021	OptiVibro® 293 Serum-Free Feed Medium HA02 (Powder)	1 L powder
HA000-N022	OptiVibro® 293 Serum-Free Feed Medium HA02 (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

Instructions for preparing 1 L of HA02 from powder:

1. Charge a clean vessel with 60% of the final volume of WFI or cell-culture-grade water.
2. Slowly add 153.58 g HA02 powder while stirring continuously. Mix for approximately 60 minutes.
3. Adjust to pH 8.5-8.8 using approximately 43-47 mL of 5 mol/L NaOH. Mix for 60 minutes.
4. Adjust to pH 7.5-7.7 using approximately 9-11 mL of 6 mol/L HCl. Mix for 10 minutes.
5. Bring to final volume with water and continue mixing for 5 minutes.
6. Verify final pH (6.5-7.9) and osmolality (250-310 mOsm/kg, measured after diluting 1 mL medium with 4 mL water).
7. Sterilize immediately through a 0.22 µm PES membrane filter. Store reconstituted medium at 2-8°C, protected from light, until use.

LIGHT PROTECTION Protect product from direct and fluorescent light during storage, handling, and transport. Do not expose product to UV irradiation during transfer into a clean area.

Related products

OptiVibro® 293 Serum-Free Medium TransExp HE02	Related basal medium for transient protein expression workflows
OptiVibro® 293 Serum-Free Medium TransExp HE03	Related basal medium for lentiviral production workflows
OptiVibro® Glucose Solution	Related glucose supplementation product
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.	