

ExCell Bio

OptiVitro[®] 293 Cell Serum-free Medium HE01

For Research and Manufacturing Use
Not Intended for Diagnostic and Therapeutic Use

User Manual

Catalog Number HE000-N012
HE000-N011
HE000-N011S



| Product description

OptiViro® 293 Cell Serum-free Medium HE01 is an animal component-free, chemically defined (CD) medium that has been developed for the expansion of HEK293-derived suspension cell lines such as suspension 293T, 293F cells. OptiViro® 293 Cell Serum-free Medium HE01 supports the growth and transfection of multiple suspension 293 cell lines, and can achieve high antibody/protein yields or high lentivirus/AAV/ADV titers when applied for protein expression or virus production. This product is free of antibiotics, and is manufactured in compliance with GMP regulations. OptiViro® 293 Cell Serum-free Medium HE01 should be supplemented with L-Glutamine, the recommended working concentration is 6 mM.

| Contents and storage

Catalog No.	Product name	Amount	Storage	Shelf life ^[1]
HE000-N012	OptiViro® 293 Cell Serum-free Medium HE01	1000 mL	2-8 °C Protect from light	12 months
HE000-N011	OptiViro® 293 Cell Serum-free Medium HE01	500 mL	2-8 °C Protect from light	12 months
HE000-N011S	OptiViro® 293 Cell Serum-free Medium HE01(Sample)	100 mL	2-8 °C Protect from light	12 months

^[1] The Shelf-Life may be extended after strict validation by QC.

| Instructions for use

Prepare media

- Add sterile L-glutamine solution to OptiViro® 293 Cell Serum-free Medium HE01, the working concentration of L-glutamine is 6 mM. After L-glutamine is added, the medium is good to use within one week.

Culture suspension 293 cells

- Seed suspension 293 cells to 125 mL shake flask at the concentration of $0.3-1 \times 10^6$ cells/mL, a culture volume of 20-30 mL is recommended.
- Incubate at 37°C in a humidified atmosphere of 5-8% CO₂ in air on an orbital shaker platform rotating at around 125 rpm (19 mm orbital diameter) or 95 rpm (50 mm orbital diameter).
- Pass the cells every 48-72 hours. If the cells are just recovered from frozen state, it is recommended to subculture cells for three passages before use.
- **Note:** OptiViro® 293 Cell Serum-free Medium HE01 supports PEI- or liposome-mediated plasmid transfection.