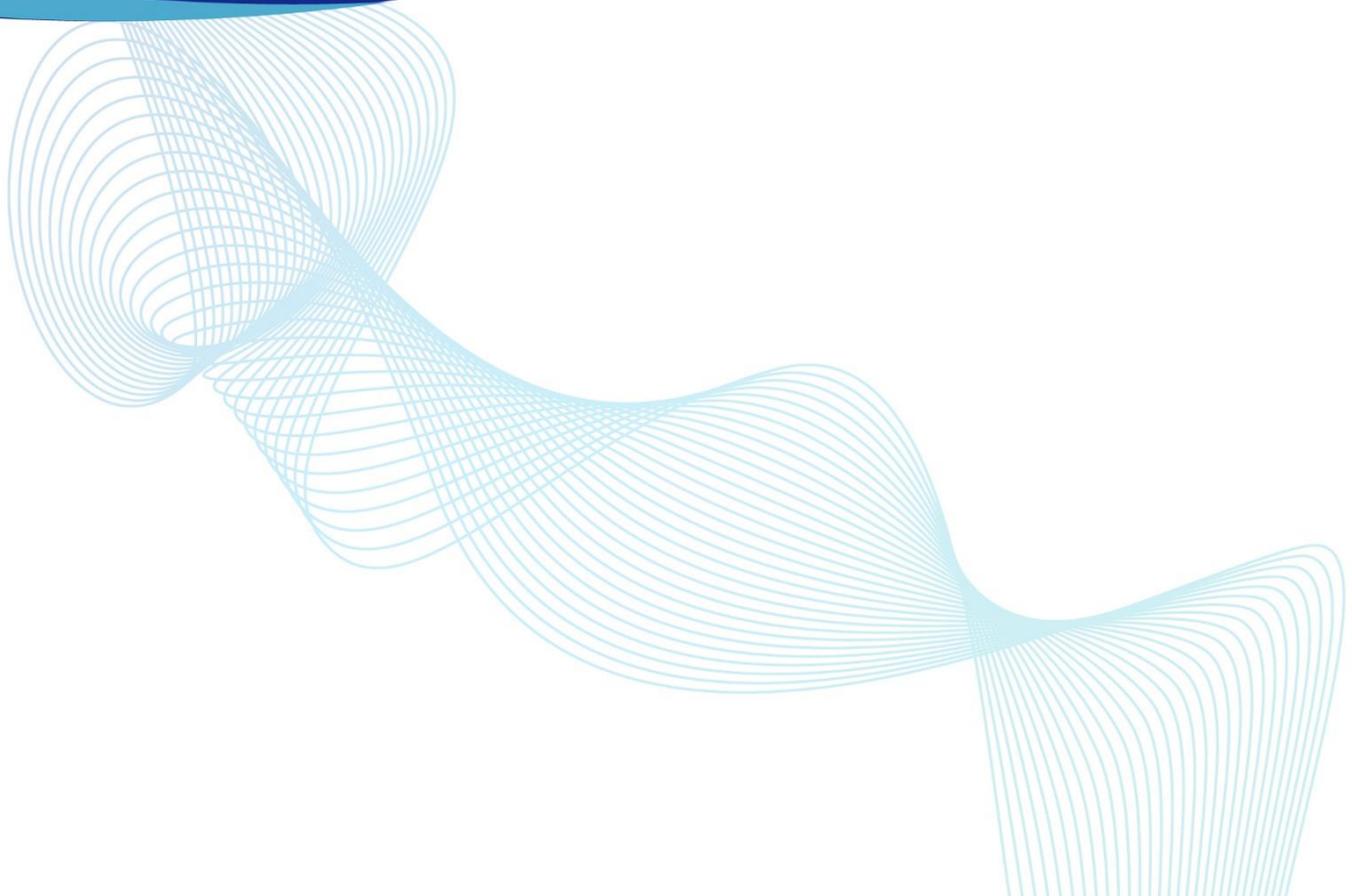




Transpro CD 01

High-Performance Culture Medium for Animal-Cells

Product Instruction Manual



DUONING

High-Performance Culture Medium for Animal Cells

Product Name: Transpro CD 01

Main Product No.: MS002-500ml, MS002-1L; Liquid packaging

Product Description

Transpro CD 01 is a universal transient medium, which can be used for subculture, high-density culture and transient transfection culture of HEK293 cells and CHO cells. The transient transfection process does not require centrifugation to change the medium. Transpro CD 01 is suitable for the use of 293 series cells such as HEK 293, Expi293F, 293F, 293E and CHO series cells such as ExpiCHOS and CHOS for transient transfection expression culture of antibodies, recombinant proteins and viruses during the development and manufacture process. Transpro CD 01 is an animal-derived component free (ACF), protein free (PF), chemically defined (CD) medium. Transpro CD 01 medium does not contain any growth factor and hydrolysates, which ensures consistency between batches and improves the efficiency of the cell culture process. Transpro CD 01 liquid package does not contain L-glutamine, HT and anti-clumping agent.

Cell Culture

- 1) Suggested cell inoculation density: 0.2×10^6 cells/mL.
- 2) Temperature: 37°C
- 3) CO₂: 8%
- 4) It needs to be supplemented with 4-6 mM L-glutamine when used.

Cell Adaption

Most cell lines can adapt directly to this product. They can be directly inoculated into this medium and passaged more than three times. For more cell lines, sequential cell adaption may be used when using this medium.

Cell Cryopreservation

- 1) Prepare the cryopreservation solution on the ultraclean workbench: 90% Transpro CD 01 + 10% dimethyl sulfoxide (DMSO) mixture, precooling at 2~8°C (Temperature will be released when DMSO is diluted);
- 2) Cryopreserved cell suspension: in exponential growth stage, with a density greater than 1.5×10^6 cells/ml, and the viability is greater than 95%. Generally, the recommended freezing density is $1.0 \sim 1.5 \times 10^7$ cells/mL;
- 3) The cell suspension was centrifuged at 800 rpm for 5 min;
- 4) Slowly pour out the supernatant and resuspend the cells with cryopreservation solution, and the cryopreservation density is $1.0 \sim 1.5 \times 10^7$ cells/ml, transfer the cells to the sterile cryopreservation tube;
- 5) Place the cryopreservation tube in the cryopreservation box containing isopropyl alcohol, freeze it at -80 °C overnight, and then transfer it to the liquid nitrogen tank for long-term storage. If there is no freezing box, the temperature can be reduced manually by gradient as follows:
 - Freeze at 4 °C for 30 min;
 - Freeze at -20 °C for 2-4 h;
 - Freeze at -80 °C overnight;
 - Transfer frozen cells to liquid nitrogen tank for long-term storage

Cell Recovery

- 1) Prepare a 37 °C water bath to thaw frozen cells;
- 2) 15 ml sterile centrifuge tube is prepared, and 2-5mL Transpro CD 01 is added;
- 3) Take out the cryopreservation tube from the liquid nitrogen tank and rapidly thaw (<1 minute) frozen cells in a 37°C water bath;
- 4) After wiping the cryopreservation tube with 75% ethanol, open the cryopreservation tube in the sterile operation table, transfer the cell suspension to a 15 ml centrifuge tube and centrifuge at 800 rpm for 5 min;
- 5) Slowly pour out the supernatant, resuspend it with 15 ~ 20 ml preheated Transpro CD 01, and transfer it to a 125 ml shake flask;
- 6) Place it in a shaking incubator with 8% CO₂, 110~130 rpm, at 37 °C for culture;
- 7) After 2-3 days of culture, the cells are counted and subcultured.

Cell Passage

The cells are seeded at 0.2 ~ 1.0 x10⁶ cells/ml, count and subculture every 2~ 3 days. In the first three passages, the volume remained unchanged to restore cell viability. When the cell viability returned to normal and reached more than 90%, it was expanded from 0.2~1.0x10⁶ cells/ml until the required seed volume and normal seed state were reached: the vitality was greater than 95%, the cell morphology was regular and round, and the growth doubling time was normal.

Transient Transfection Operation

- 1) The day before transfection need to seed cells at 2.0x10⁶ viable cells/ml, the cell density can reach 4.0x10⁶ viable cells/ml on the second day;
- 2) After cell counting on the second day of culture, the cell viability was more than 95%, and the living cell density was $\geq 4.0 \times 10^6$ cells /ml, can be used directly; If the cell density is lower than 4.0x10⁶ cells /ml, the cells can be collected by centrifugation (800 rpm, 5 min), and the cells can be resuspended in Transpro CD01 medium at density of 4.0x10⁶ cells/ml;
- 3) The mixture of DNA and PEI was prepared according to the optimized transient process;
- 4) Add the mixed solution to the culture medium for culture;
- 5) After 18 hours of culture, it is recommended to supplement the supplemented medium Transpro feed 1 (the concentration is recommended to be 3-5% of the initial culture volume), or the combined supplemented medium DN feed B2 (the concentration is recommended to be 0.3-0.5% of the initial culture volume), which can further improve the density of viable cells and protein expression;
- 6) Culture for 7 days, or the viability is less than 60%, and end the culture.

Storage and Validity Period

Liquid packaging: 2°C to 8°C, Protect from light; Shelf life: 12 months.

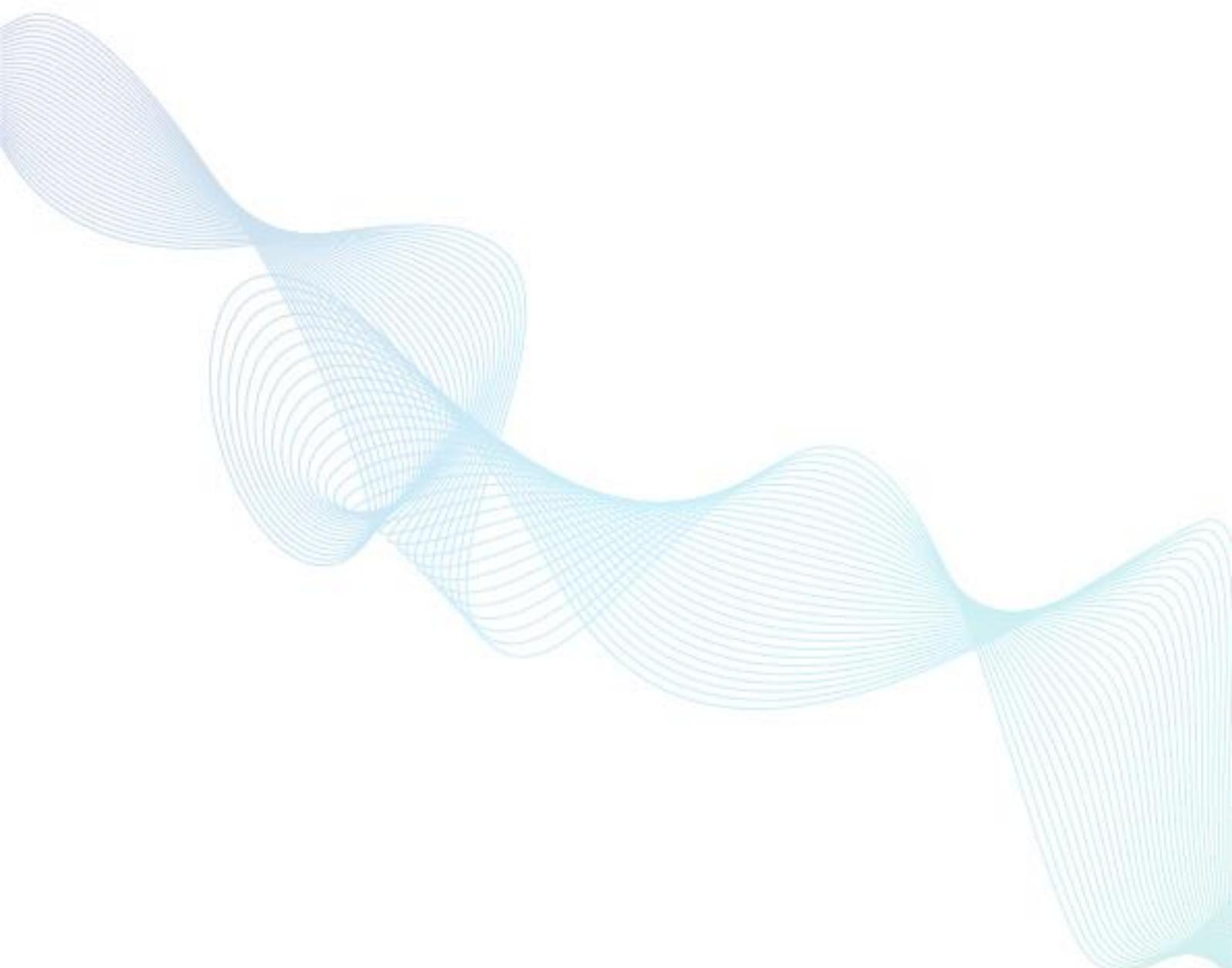
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