

Product Instruction

Vero Cell CD Medium

Product Type: Pesche-CD001S

Product Description

Pesche-CD001S is a CD medium designed for the growth of adherent Vero cells for virus production, supporting its high-density expansion, continuous passaging culture, and other virus production modes without serum supplemented. It meets the nutritional requirements of cells in different states of virus production and promotes cell proliferation and virus yield. The serum-free, animal-origin-free, and ultra-low protein formulation facilitates downstream purification and maximizes the safety and reliability of the production process. Various product packaging sizes exist, adapt to different users' production process systems, and are easy to use.

Product Ingredient

The medium contains carbohydrates, amino acids, vitamins, metal ions, and other nutritional components.

This product does not contain hydrolysates, antibiotics, HEPES or nucleosides.

This product does not contain raw materials of animal origin

Product Preservation

- Store the powder at 2-8°C, and the supplements at -20°C in a dark environment.
- This product is highly hygroscopic. Please use it immediately after opening. If it needs to be stored, please seal it by heat sealing or sealing clips, avoiding dampness and ineffective.
- Do not recommend using it when the product is beyond the expiration date.

Product Declaration

- Accidental situations can be handled according to this product's chemical Material Safety Data Sheet (MSDS).

Instructions for the preparation

Prepare the Vero Cell CD medium as Table 1 shows.

Component	Concentration
Vero Cell CD Medium powder	14.50 g/L
Supplement 1	100 μ L/L
Supplement 2	100 μ L/L
L-glutamine	584 mg/L
NaHCO ₃	2200 mg/L

Table 1 Preparation of Vero Cell CD Medium

- (1) Place supplement 1 in a 37 °C water bath and shake violently after rewarming until it is completely dissolved and clarified;
- (2) Place supplement 2 in a 37 °C water bath or room temperature, and mix it upside down repeatedly without violent shock;
- (3) Add 90% of the total purified water (25-30°C) to a clean container;
- (4) Add 14.5g/L powder of Vero cell CD medium;
- (5) Add 584 mg/L L-glutamine, and stir the solvent continuously for 40 minutes until it is completely clarified;
- (6) Add 2200 mg/L NaHCO₃ and stir for 3-5 minutes to dissolve;
- (7) Add supplement 1 100 μ L/L, quickly stir and disperse;
- (8) Add supplement 2 100 μ L/L, quickly stir and disperse;
- (9) Add water to 100% of the total amount, stir and adjust the pH value to 7.1~7.3 with 1M HCl or NaOH;
- (10) Filter the liquid medium and store the liquid at 2-8 °C, protect from light, shelf life of 1 month.

Notes:

- (1) The above units of "g/L" are volume concentration (solute mass/solution volume).
- (2) The above preparation parameters (such as stirring time, etc.) are for small-scale preparation in research. When in mass production, please set appropriate preparation parameters according to the stirring capacity of the preparation vessel.
- (3) The product belongs to a carbon dioxide buffer system. The product's final pH value may rise if vigorous or long-time stirring, which is a normal phenomenon and does not affect the quality of the product.