

Pesche-CD100 Vero Cell CD Medium

Product Name: Pesche-CD100

User Manual

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Description

Pesche-CD100 Vero cell CD medium is a serum-free medium specially designed for virus production. It can support the high-density proliferation of Vero adhered cells, continuous generational culture and the production of a variety of viruses without adding serum.

Application

This product can be used in scientific research and large-scale production of biological drugs, but it cannot be directly used for human or medical purposes.

Composition

This medium contains:

- carbohydrates, amino acids, vitamins, metal ions, and other nutritional components.
- 3.5 g/L D-glucose, 0.3 g/L P188.
- Phenol red, HEPES, nucleoside.

Not contain:

- add 0.584g/L of L-glutamine when using it.
- hydrolysates, antibiotics.
- Raw materials from animal sources.

Storage

- Store medium at 2-8°C, away from light.
- When this product is turbid, precipitation or the shelf life exceeds the shelf life, it is recommended to discard it.
- This product should be used immediately after opening.

Cryopreservation

- 1) Take the convergence degree of 80-90%, the activity rate is greater than 90%, and the sterile cells are frozen for microscopic examination. Retain conditional culture medium (supernatant of medium).
- 2) The frozen medium is prepared with a ratio of 92.5% Pesche-CD100 medium (fresh medium and conditional medium 1:1) + 7.5% DMSO.
- 3) Cells use mild digestive enzymes (if you use ordinary trypsin, you need to use trypsin inhibitors to terminate digestion and centrifuge removal) to digest. After stopping digestion, 100xg is centrifugated for 5 minutes and discarded.
- 4) Use 2) prepared frozen storage medium to resuspend cells. After resuspension, the control of living cell density is $1-5 \times 10^6$ cells/mL.
- 5) According to the specific needs of the project, step 4) the suspension will be stored in a freezing storage tube with suitable specifications.
- 6) Achieve cryopreservation in an automated or manual controlled rate freezing apparatus (0.5-1°C decrease per minute is suggested).
- 7) Transfer frozen cells to liquid nitrogen storage.

Cell Recovery

- 1) Rapidly thaw frozen cells in a 37°C water bath. Transfer to a clean workbench as soon as melted or with small ice crystals.

- 2) Transfer the cell suspension into a centrifuge tube containing 10-15 mL preheated Pesche-CD100 medium, centrifuge 100×g for 5 min, and discard the supernatant.
- 3) Use 15-20 mL preheated Pesche-CD100 medium to suspend cells and transfer to a T75 square bottle with a breathable lid.
- 4) Place the T75 square bottle in an incubator with 37°C, 5% CO₂ and saturated humidity.
- 3) Add 1 mL (taking T75 as an example) mild digestive enzyme (if you use ordinary trypsin, you need to use trypsin inhibitors to terminate digestion and centrifuge removal), 37°C digest for 3-5 minutes until the cell begins to round and fall off.
- 4) Add the preheated Pesche-CD100 medium to contact all culture surfaces, terminate the digestion, and gently blow to collect the cells.
- 5) Sampling count, inoculation with 1-5×10⁴ cells/cm², supplement Pesche-CD100 medium to 15-20 mL (take T75 as an example).

Subculture Cells

- 1) The cell convergence degree is 80-90%, and the sterile cells are passed on by microscope.
- 2) Discard the culture solution, rinse twice with 10 mL (taking T75 as an example) PBS at room temperature, and discard PBS.
- 6) Placed in an incubator of 37°C, 5% CO₂ and saturated humidity. Generally, the convergence degree is 80-100% in 2-5 days.

Related Product

Product Name	Cat. No.	Form	Size	Packaging	Note
Pesche-CD100S Vero Cell CD Medium	EXP0117501	Powder	200 L	Bag	No serum, ultra-low protein, no animal source, clear chemical composition, support the production of COVID-19 vaccine, rabies vaccine, rotavirus vaccine, etc.
	EXP0117502	Powder	100 L	Bag	
	EXP0117503	Powder	10 L	Bottle	
Pesche-CD100 Vero Cell CD Medium	EXP0117504	Liquid	1 L	Bottle	

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