

Pesche-CD001S Vero CD Media

CD medium specially developed for efficient culture of Vero cells for virus production

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-derived component-free and ultra-low protein formulation facilitates downstream purification and maximizes the safety and reliability of the production process. BioEngine can tailor the composition of the medium and provide customized formulations to meet the production requirements of different viruses. *Pesche-CD001S* supports the large-scale production of COVID-19 vaccines, human rabies vaccines and rotavirus vaccines, and has successfully supported the human rabies vaccine program into phase III clinical trial.

Features

- Serum-free
- Animal-derived component-free
- Ultra-low protein
- Chemical Defined
- Supporting high density growth of Vero cells
- Available in powder and liquid format



Pesche-CD Vero CD Media

Advantages

- Animal-derived component-free; TSE/BSE statement available on demand;
- The culture effect is comparable to that of MEM with 10% serum;
- High seeding ratio, short doubling time, high cell density, simple and convenient passaging operation.
- Supporting continuous passages with no significant attenuation of cells in high generations.
- Suitable for culture in microcarrier reactors, reducing production costs and improving production efficiency;
- Full traceability by EU-certified ISO13485:2016 Quality Management System;
- Complete documents in support of CTA for easier regulatory submission.

Ordering Information

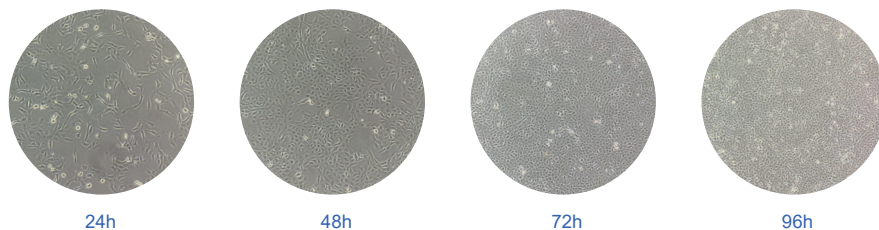
Product Name	Cat. No.	Form	Volume	Unit	Notes
<i>Pesche-CD001S</i> Vero CD Medium	EXP0113101	Powder + Additive	200L	Set	Support the production of COVID-19 vaccines, rabies vaccines, and rotavirus vaccines
	EXP0113102	Powder + Additive	100L	Set	
	EXP0113103	Powder + Additive	10L	Set	
<i>Pesche-CD001</i> Vero CD Medium	EXP0113104	Powder + Additive	1L	Set	

Performance

Cell growth

Vero cells cultured with *Pesche-CD001S* showed a clear contour, good morphology, and vigorous growth, allowing a high seeding ratio for cell passaging.

Photographs of the cell growth for each day of cell passaging culture at a 1:10 seeding ratio. The cells were cultured for 96 hours and grew into dense monolayers.

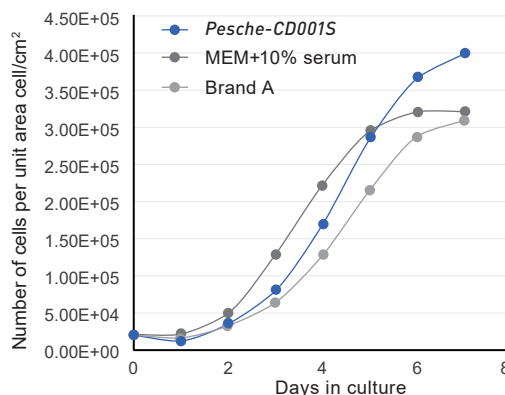


Cell passaging

Vero cells were cultured for three consecutive passages in *Pesche-CD001S*, similar serum-free medium (Brand A), and MEM (10% serum) medium to fully acclimate the cells. Cells were detached into suspensions according to the cell passaging procedure, and T25 cell culture flasks were inoculated at a density of 2×10^4 cells/cm² and sampled and counted every 24 hours to obtain cell growth curves for the three media, as shown in the figure below.

Comparison of Vero cell growth in *Pesche-CD001S*, MEM (10% serum) and Brand A medium

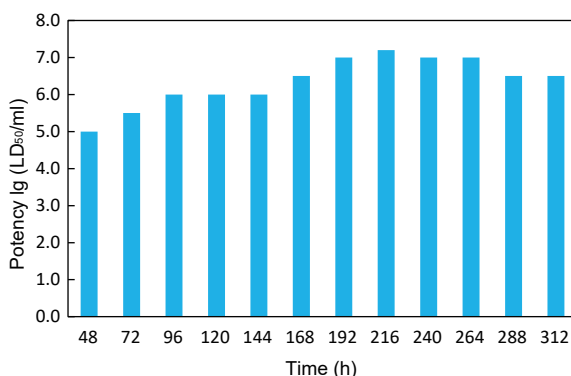
Days in culture	Cell volume($\times 10^4$ cells/cm ²)		
	<i>Pesche-CD001S</i>	MEM+10%serum	Brand A
0	2.00	2.00	2.00
1	1.28	2.10	1.50
2	3.56	4.90	3.20
3	8.06	12.8	6.38
4	16.9	22.1	12.6
5	28.5	29.5	21.5
6	36.7	31.9	28.7
7	40.1	32.5	30.8



Growth curve of Vero cells cultured in *Pesche-CD001S*, MEM (10% serum) and Brand A medium

Virus production

Rabies viruses were produced in *Pesche-CD001S* and were collected at 48-312 h, all above the potency of $10^{5.0}$ LD₅₀/ml to meet the production requirements.



30 years of ingenuity on creating a novel drive for cell culture



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