

SF501 LMH Serum-Free Media

A serum-free medium especially developed for efficient large-scale culture of LMH cells

SF501 medium is an innovative serum-free medium developed independently by Shanghai BioEngine Sci-Tech Co., Ltd., which is serum-free, protein-free and animal-derived component-free. It is the first medium for serum-free total suspension culture of LMH cells in China. It supports efficient acclimation of adherent LMH cells and high density growth of suspension cells, and provides a high-quality environment for efficient expression of avian adenovirus vaccines. **SF501** is your ideal choice for large-scale industrial suspension culture of LMH cells: the suspension culture system provides you with a significant increase in production efficiency, while the serum-free culture system provides you with maximum process stability. Currently, it has been applied on a large scale in a number of avian adenovirus vaccine production projects.

Features

- Serum-free
- Animal-derived component-free
- Protein-free
- Suitable for suspension acclimation of LMH cells
- Supporting high-density culture of LMH cells
- Supporting LMH cells for efficient amplification of avian adenovirus

Advantages

- The first medium in China for industrial application of avian adenovirus production based on serum-free suspension culture of LMH cells.
- Full traceability by EU-certified ISO13485:2016 Quality management System;
- Excellent inter-batch consistency (Cpk $\geq$ 1.33, RSD < 5%)*;
- Optional powder media for use in large-scale manufacturing with easy preparation procedures;
- Powder media capable of a single batch size of 100,000 L.



SF501 LMH Serum-Free Medium

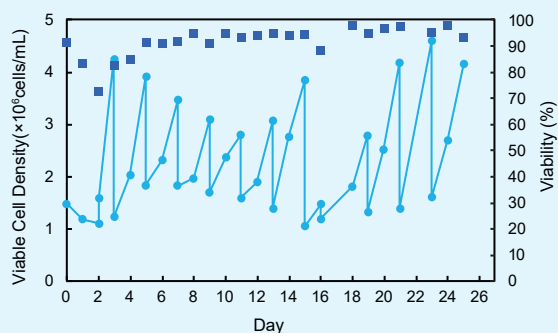
*Critical indicator Cpk $\geq$ 1.33. Cpk is a standard index to state the capability of one process. Cpk $\geq$ 1.33 indicates the process is capable and meets specification limits. PPM mixing uniformity RSD < 5%. RSD refers to relative standard deviation, lower RSD indicates reduced variability in the production process.

Ordering Information

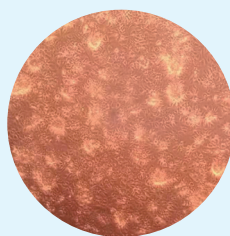
Product Name	Cat. No.	Form	Size	Package	Other
SF501 LMH Serum-free Medium	EXP0105703	Powder	200L	Bag	[+]-L-Gln [-]-NaHCO ₃
	EXP0105701	Powder	100L	Bag	[+]-L-Gln [-]-NaHCO ₃
	EXP0105702	Powder	10L	Bag	[+]-L-Gln [-]-NaHCO ₃
	EXP0100901	Powder	1L	Bag	[+]-L-Gln [+]-NaHCO ₃

Performance

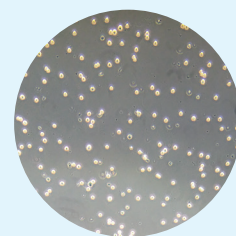
- LMH adherent cells could be directly acclimated in **SF501** without serum for rapid adaptation to the suspension culture system.



- LMH cells were acclimated from adherent state to suspension culture, and they were individually dispersed and translucent in morphology with a uniform cell size.

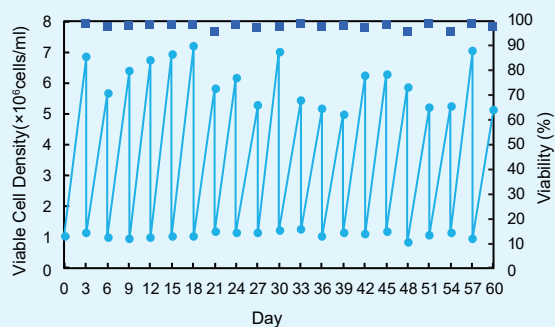


LMH Adherent cells

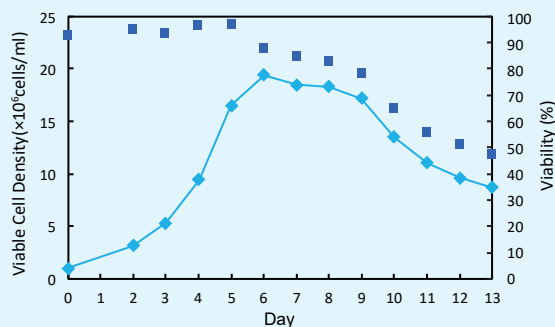


LMH Suspension cells

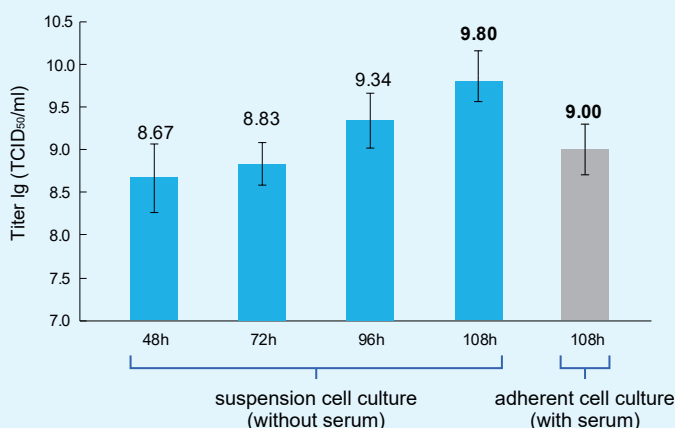
- Successfully acclimated LMH suspension cells were inoculated at 1×10^6 cells/ml in SF501, and LMH cell density reached $5-7 \times 10^6$ cells/ml in 72h, with high viability for long-term stable passages.



- LMH cells were inoculated at 1×10^6 cells/ml in SF501 and reached a maximum density of 2×10^7 cells/ml with a plateau period of up to 4 days.



- Using **SF501** suspension culture of LMH for serum-free production of avian adenovirus (serotype 4) achieved the highest titer of $10^{9.5-10.1}$ TCID₅₀/ml, comparable to that of adherent serous culture ($10^{8.7-9.3}$ TCID₅₀/ml). Suspension culture allows for a significant increase in production efficiency.



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