



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
- S Animal-derived component-free
- O 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 anagement System;
- Excellent inter-batch consistency (CPK*>1.33);
- 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.

*CPK: Process Capability Index; a CPK>1.33 indicates good process control and small inter-batch difference in products

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

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Performance

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



Successfully acclimated LMH suspension cells were inoculated at 1×10⁶ cells/ml in SF501, and LMH cell density reached 5-7×10⁶ cells/ml in 72 h, with high viability for long-term stable passages.



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



Solution Set is the set of th reached a maximum density of 2×107 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 109.5-10.1 TCID₅₀/ml, comparable to that of adherent serous culture (108.7-9.3 TCID₅₀/ml). Suspension culture allows for a significant increase in production efficiency.



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

Tel ·



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