



SF003 MDCK Serum-Free Media

Independently developed serum-free media especially for the production of influenza vaccine with MDCK cells

The BioEngine R&D team started the research in techniques for the culture of MDCK cells in 1995. Based on years of technology accumulation and technical service experience of multiple influenza projects in the manufacturing site, BioEngine is constantly updating MDCK media formula. At present, the latest *SF003* is suitable for the rapid adaptation of MDCK cells, supporting high-density culture, as well as the high-efficiency proliferation of avian influenza and swine influenza viruses, and has been applied in several industrial production projects.

Features

- Serum free
- Animal-derived component-free
- Protein free

- Support rapid serum-free suspension adaptation of adherent MDCK cells
- Support high-efficiency proliferation and high-density culture of MDCK cells
- Support high-efficiency proliferation of avian influenza and swine influenza viruses



Advantages

SF003 MDCK Serum-Free Media

- O Distinctive culture results proven in numerous studies on avian influenza virus subtypes;
- Optional powder media for use in large-scale manufacturing with easy preparation procedures;
- O Powder media capable of a single batch size of 100,000 L;
- Excellent inter-batch consistency (CPK* > 1.33);
- Full traceability by EU-certified ISO13485:2016 Quality Management System.

*CPK is a standard index to state the capability of one process.

CPK>=1.33: the process is capable and meets specification limits. The higher the CPK, the better.

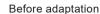
Ordering Information

Product Name	Cat. No.	Form	Size	Package	Notes
SF003 MDCK Serum-free Medium	EXP0107203	Powder	10L	Bag	Support high-efficiency proliferation of avian influenza and swine influenza viruses
	EXP0107202	Powder	100L	Bag	
	EXP0107201	Powder	200L	Bag	

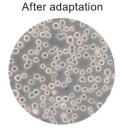


Performance

© Cell growth

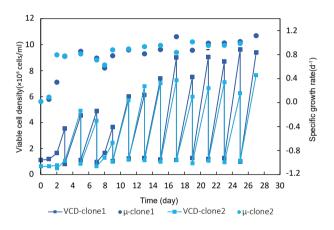


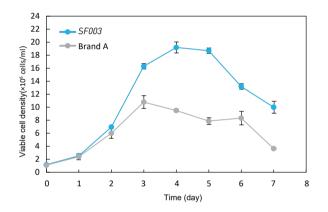




When adherent MDCK cells are directly transferred to the suspension culture system with *SF003* media, the cells could rapidly adapt to suspension culture and grow steadily, with a doubling time of 18-24 h; after adaptation, the suspension cells are full in shape and uniform in size, and grow as single scattered cells without cell clustering.

SF003 media could support a culture density of up to 2.0×10⁷ cells/ml of MDCK cells, about double compared with serum-free media of other brands.



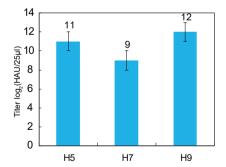


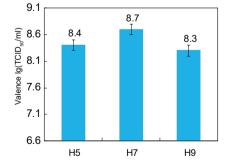
Virus production

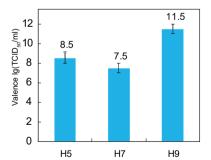
When SF003 media are used to produce various flu virus subtypes, the HA titer could reach up to $2^9 \sim 2^{12}$ HAU/25 μ l.

When *SF003* media can be used to produce various flu virus subtypes, the virus titer could reach up to $2^7 \sim 2^{12}$ TCID₅₀/ml.

When *SF003* media can be used to produce various flu virus subtypes, the HI titer could reach up to $2^7 \sim 2^{12}$ HIU/25 μ I.







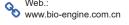
30 years of ingenuity on creating a novel drive for cell culture













E-mail: marketing@bio-engine.com.cn