Xeno-S001S MDCK Serum-Free Media

Independently developed serum-free media especially for the production of human flu virus with MDCK cells

The BioEngine R&D team started the research in techniques for the culture of MDCK cells in 1995. Based on more than 10 years of technology accumulation and an AI-intelligent high-throughput data screening platform, BioEngine has released the *Xeno* series MDCK serum-free media to assist in the transformation of the manufacturing process for human flu vaccines from embryonated egg culture to high-efficiency suspension cell culture. *Xeno* series media are applicable for the rapid adaptation of MDCK cells, support high-density culture, and the high-efficiency proliferation of various flu virus subtypes. The series media have been applied in the CTA of human flu vaccines.

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 the human flu virus

Xeno Series MDCK Serum-Free Media

Advantages

- ADCF; TSE/BSE statement available on demand;
- Distinctive culture results proven in numerous studies on human flu virus subtypes;
- 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;
- Excellent inter-batch consistency (CPK* > 1.33);
- Full traceability by EU-certified ISO13485:2016 Quality Management System;
- Complete documents in support of CTA for easier regulatory submission.

*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.

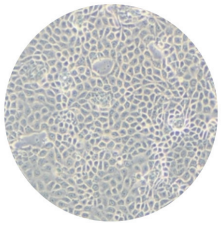
Ordering Information

Product Name	Cat. No.	Form	Size	Package	Notes
Xeno-S001 MDCK Serum-Free Medium	*EXP0100405*	Liquid	1L	Bottle	Support high-efficiency proliferation of the human flu virus
Xeno-S001S MDCK Serum-Free Media	*EXP0100403*	Powder	10L	Bag	
	EXP0100406	Powder	100L	Bag	
	EXP0100401	Powder	200L	Bag	

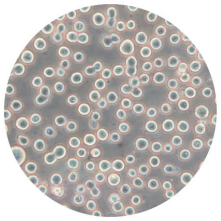
Performance

Cell growth

Before adaptation

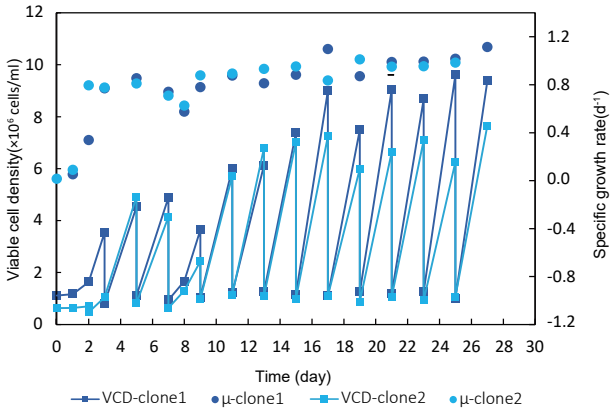


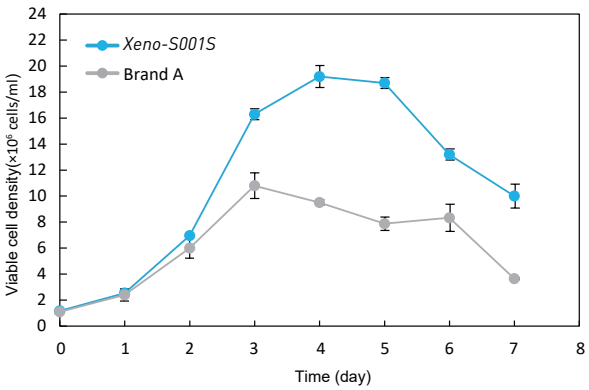
After adaptation



When adherent MDCK cells are directly transferred to the suspension culture system with *Xeno* 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.

Xeno media could support a culture density of up to 2.0×10^7 cells/ml of MDCK cells, about double compared with serum-free media of other brands.

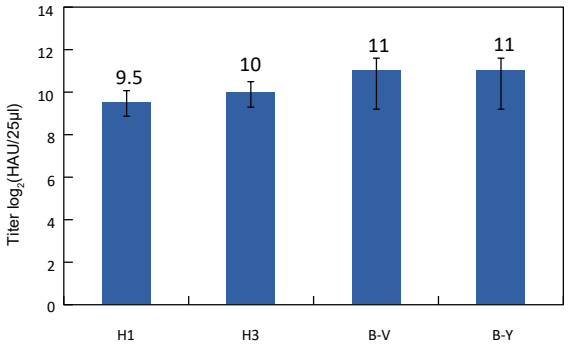


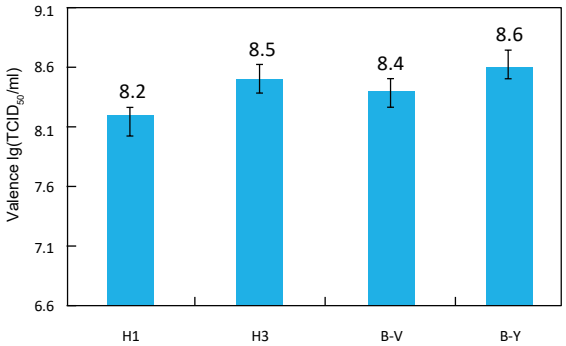


Virus production

When *Xeno-S001S* media are used to produce various flu virus subtypes, the HA titer could reach up to 2^9~2^{12} HAU/25 μl.

When *Xeno-S001S* media can be used to produce various flu virus subtypes, the virus titer could reach up to 2^8~2^9 $TCID_{50}$/ml.





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

BioEngine Official Website

Add.:
Floor 5, Building 1, Lane 720, Cailun Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai, PRC

Tel.:
(86)21-68582660

Web.:
www.bio-engine.com.cn

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