

Vigor-S101S Insect Cell Serum-Free Media

Specially Developed for Efficient Large-scale Insect Cells Culture

The insect cell-baculovirus expression vector system (BEVS) has many advantages, including high protein expression, post-translational modification of eukaryotes, simultaneous expression of multiple exogenous genes, and high safety. These features make BEVS widely used in academic research and large-scale production of recombinant proteins.

Since 1995, BioEngine's R&D team has been pioneering serum-free suspension culture technology for insect cells. Through ongoing innovations and optimization, BioEngine has developed a range of high-performance medium products. The *Vigor* series is the latest serum-free medium for insect cell culture, designed to support high cell density and large-scale culture of insect cells (sf9 & High five) as well as efficient production of recombinant proteins. The *Vigor* series have been successfully applied in producing of subunit vaccines, virus-like particle (VLP) vaccines, AAV and other biologics.

Features

- Animal-derived component-free
- Serum-free and protein-free
- Suitable for both Sf9 and High five cells
- Available for high-density culture of insect cells
- Available for high protein expression in insect cells
- Available in powder media or liquid media





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Advantages

- Animal derived component-free, TSE/BSE statement available on demand
- Distinctive culture results proven in numerous studies
- Easy to use powder media for large-scale manufacturing
- Powder media capacity of 60,000L batch size
- Excellent batch-to-batch consistency (Cpk \geq 1.33, RSD < 5%)*
- ISO13485:2016 and MDSAP certified manufacturing, meeting compliance requirements in Europe and the US. Completed data supports IND/CTA and BLA/NDA applications.

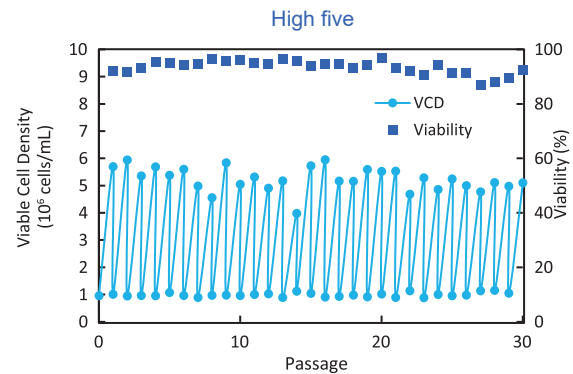
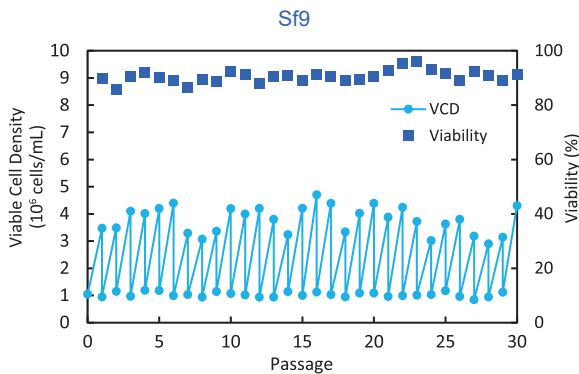
*Critical indicator Cpk \geq 1.33. Cpk is a standard index to state the capability of one process. Cpk \geq 1.33 indicates the process is capable and meets specification limits. PPM mixing uniformity RSD < 5%. RSD refers to relative standard deviation, lower RSD indicates reduced variability in the production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

Ordering Information

Product Name	Cat. No.	Form	Size	Packaging	Notes
Vigor-S101 Insect Cell Serum-free Medium	EXP0102201 	Liquid	1L	Bottle	
Vigor-S101S Insect Cell Serum-free Medium 	EXP0107401	Powder	100L	Bag	
	EXP0107403	Powder	5L	Bag	
Vigor-S101S Additive	EXP0107501 	Liquid	100mL	Bottle	Use with EXP0107401
	EXP0107503	Liquid	5mL	Tube	Use with EXP0107403

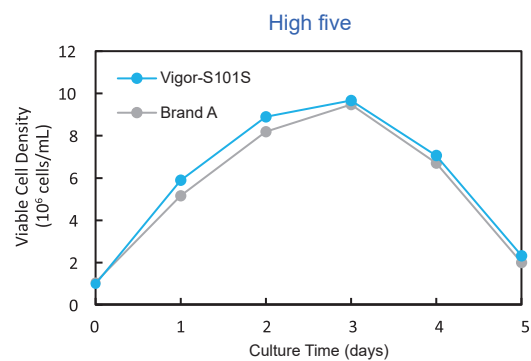
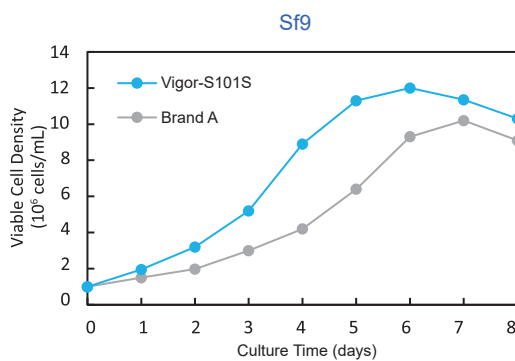
Performance

- Inoculated with 1×10^6 cells/mL and passaged every 48h in *Vigor-S101S*, Sf9 cell density reached $3-5 \times 10^6$ cells/mL (doubling time of 21-30h) and High five cell density reached $5-7 \times 10^6$ cells/mL (doubling time of 17-21h). Indicating *Vigor-S101S* allows for long-term stable passage.

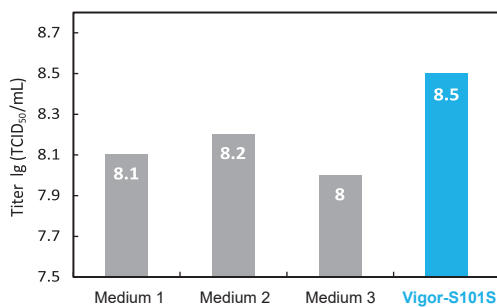


- Sf9 cells in *Vigor-S101S* reached a maximum density of $12-14 \times 10^6$ cells/mL, with a faster growth rate, higher density and longer maintenance time than in a competing medium.

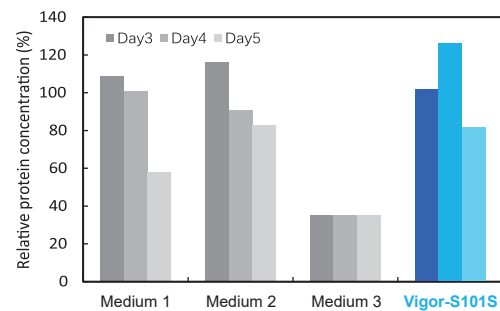
The density of High five cells in *Vigor-S101S* reached a maximum of $9-11 \times 10^6$ cells/mL, which was consistent with the level in a medium of well-known brand dedicated to High five culture.



- Using *Vigor-S101S* for baculovirus production, the viral titer exceeds that of competing products.



- Using *Vigor-S101S* for protein expression in High Five cells, the yield exceeds that of competing products.



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BIOENGINE

DRIVE YOUR SUCCESS IN CELL CULTURE

Add
Floor 4, Building 3, Lane 396, Lvzhou Ring Road,
Minhang District, Shanghai, China

Tel
(86) 21-68582660

Web
www.bio-engine.com

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

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