Hyber Hybridoma Cell Serum-Free Media

A serum-free medium especially developed for high-density suspension culture of hybridoma cells

Hyber hybridoma cell medium is a serum-free medium independently developed by Shanghai BioEngine Sci-Tech Co., Ltd., and it is an ideal choice for culturing hybridoma cells from laboratory to large-scale suspension. It enables rapid growth of hybridoma cells and supports efficient expression of antibodies in hybridoma cells while providing a guarantee for the safety and reliability of the production process.

Features

- A completely serum-free culture system
- No ingredients of animal-derived, genetically modified plant origin or raw materials with BSE origin
- No antibiotics, organic solvents, or preservatives
- Containing hydrolysate, L-glutamine, hypoxanthine, and thymine nucleoside
- Supporting high-density suspension culture and protein expression of hybridoma cells

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Advantages

- Animal-derived component-free; TSE/BSE statement available on demand;
- Distinctive culture results proven in numerous studies;
- 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.

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

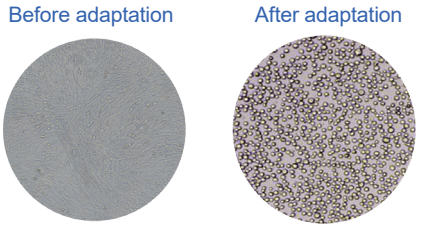
Ordering Information

Product Name	Cat. No.	Form	Size	Package	Other
Hyber-B100S Hybridoma Cell Serum-free Medium	*EXP0111201*	Powder	100L	Bag	[+]L-Gln [-]$NaHCO_3$
	EXP0111202	Powder	10L	Bag	[+]L-Gln [-]$NaHCO_3$
	EXP0111203	Powder	5L	Bag	[+]L-Gln [-]$NaHCO_3$
Hyber-B100 Hybridoma Cell Serum-free Medium	*EXP0101402*	Liquid	1L	Bottle	[+]L-Gln [+]$NaHCO_3$
Hyber-F100S Hybridoma Cell Serum-free Feed Medium	*EXP0111301*	Powder	20L	Bag	[+]L-Gln [-]$NaHCO_3$
	EXP0111302	Powder	2L	Bag	[+]L-Gln [-]$NaHCO_3$
Hyber-F100 Hybridoma Cell Serum-free Feed Medium	*EXP0100802*	Liquid	250ml	Bottle	[+]L-Gln [+]$NaHCO_3$

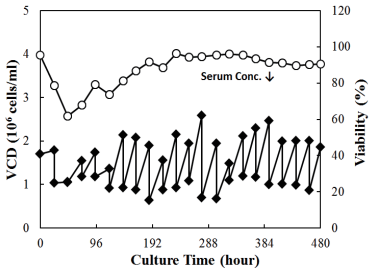
Performance

Suspension acclimation of adherent hybridoma cells

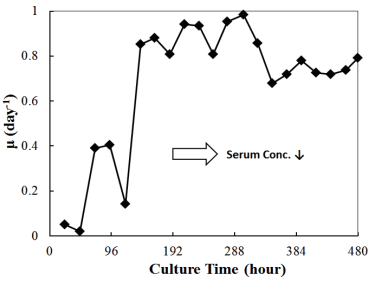
The use of *Hyber-B100S* with gradual reduction of the serum content during continued acclimation of hybridoma cells allowed acclimation of serum-adherent cells into serum-free suspension cells. Suspension cells were individually dispersed with a uniform cell size and showed a stable specific growth rate over the passages.



Adherent cells　　Suspension cells



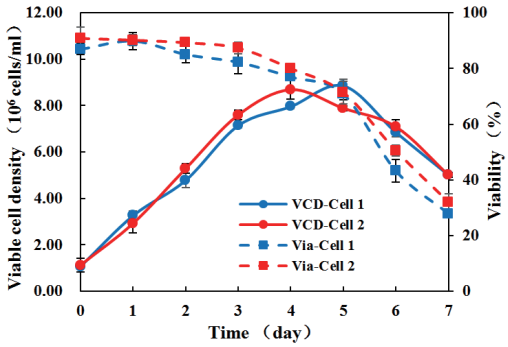
Suspension acclimation and passaging of adherent cells



Specific growth rate of adherent cell suspension acclimation

Batch culture of suspension hybridoma cells

Hyber-B100S is used for batch culture of hybridoma cells with a maximum viable cell density of 8×10^6 cells/ml and is more effective when used with *Hyber-F100S*.



Fed-batch usage strategy

Instructions for use of *Hyber-F100S*:

Culture time	C0	C1	C2	C3	C4	C5	C6	C7
Ratio of *Hyber-F100S* to C0 initial medium v/v (ml/ml)	0	3%	3%	3%	3%	3%	3%	0

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

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