

ORCHID

Culture medium for HEK293 suspension cells.

Serum free, animal component free. For virus and recombinant protein production.



BENEFITS

ORCHID medium maximizes recombinant protein and virus production of HEK293 suspension cells. If combined with feed media it supports a viable cell concentration up to 3×10^7 /mL.

ORCHID is suitable for recombinant protein production in fed-batch process. In batch process ORCHID can be used for virus production. ORCHID is not suitable for viral vector production through transient expression with polymers (e.g. PEI). For this application we have a separate medium (JASMINE).

ORCHID offers

Simplicity: Ideal from bench to manufacturing scale.

Serum-free and animal component free:

Reduces the risk for animal derived contaminants.

Fully defined: It doesn't contain hydrolysates, thus process variability is reduced. It contains one recombinant protein in low concentration.

Antibiotic-free: No risk of antibiotic traces, hidden contamination and endotoxins.

SPECIFICATION

Regulatory	Free of serum, animal component, hydrolysate, antibiotic w/ phenol red w/o L-Glutamine
Available Form	Liquid and powder
Cell Line	HEK293 suspension cells
Storage Cond.	2-8 °C, protect from light
Application	Research and manufacturing

PERFORMANCE

Stock Culture Data

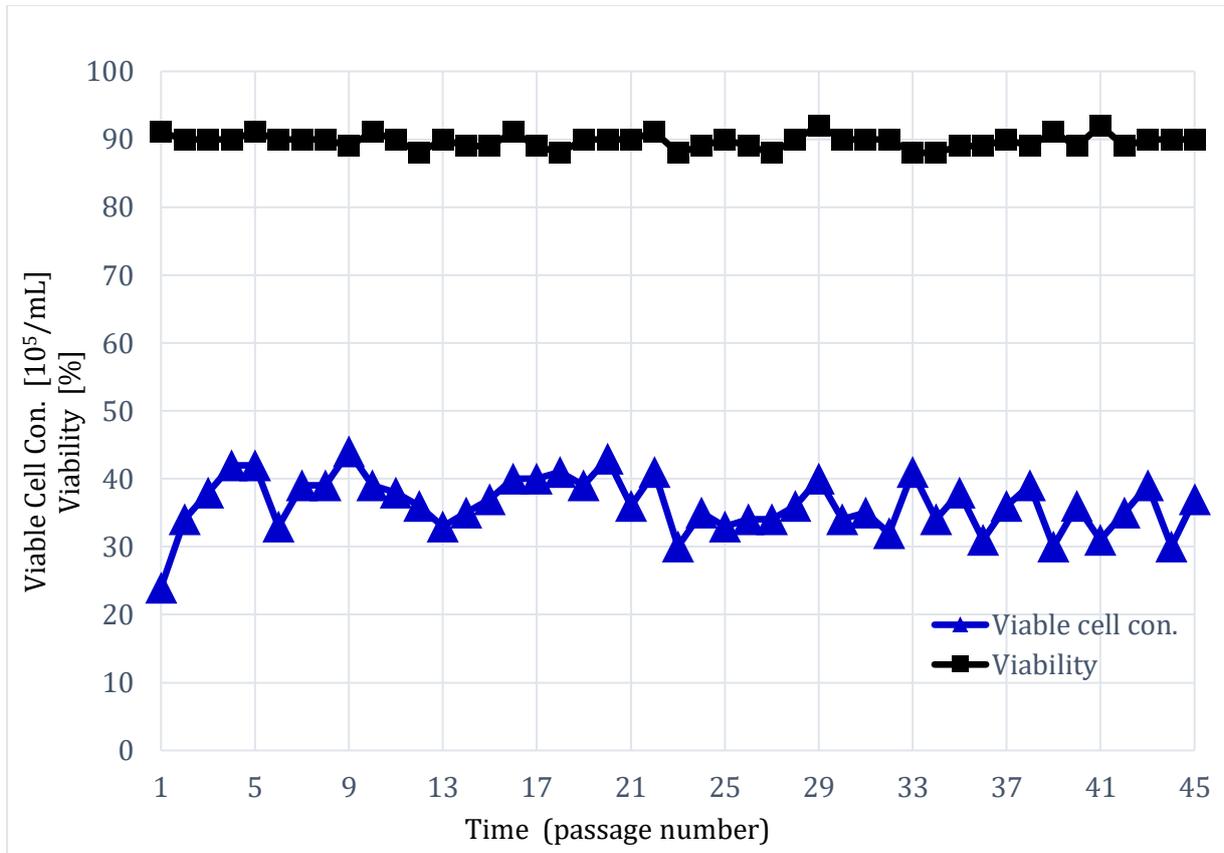


Figure 1: HEK293 suspension cells are cultured in stock culture (shake flask) in ORCHID S for 45 passages. Inoculation cell concentration was kept by 5×10^5 /mL. Cells were split every 3rd day.

Fed-Batch Culture Data

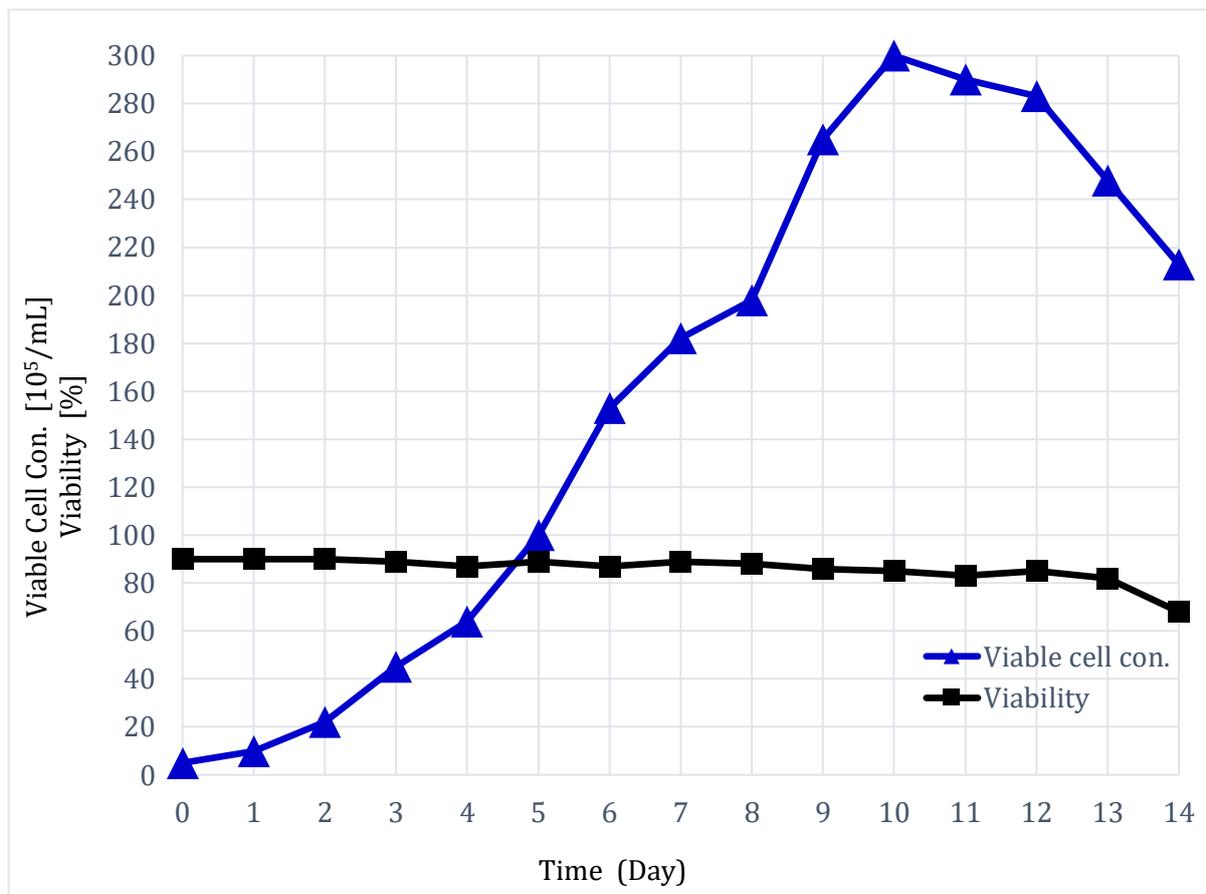


Figure 2: HEK293 suspension cells are cultured as fed-batch culture in ORCHID P with a combination of NERIUM and BEGONIA feeds for 14 days in shake flask. Inoculation cell concentration was 5×10^5 /mL.

Bioreactor Data

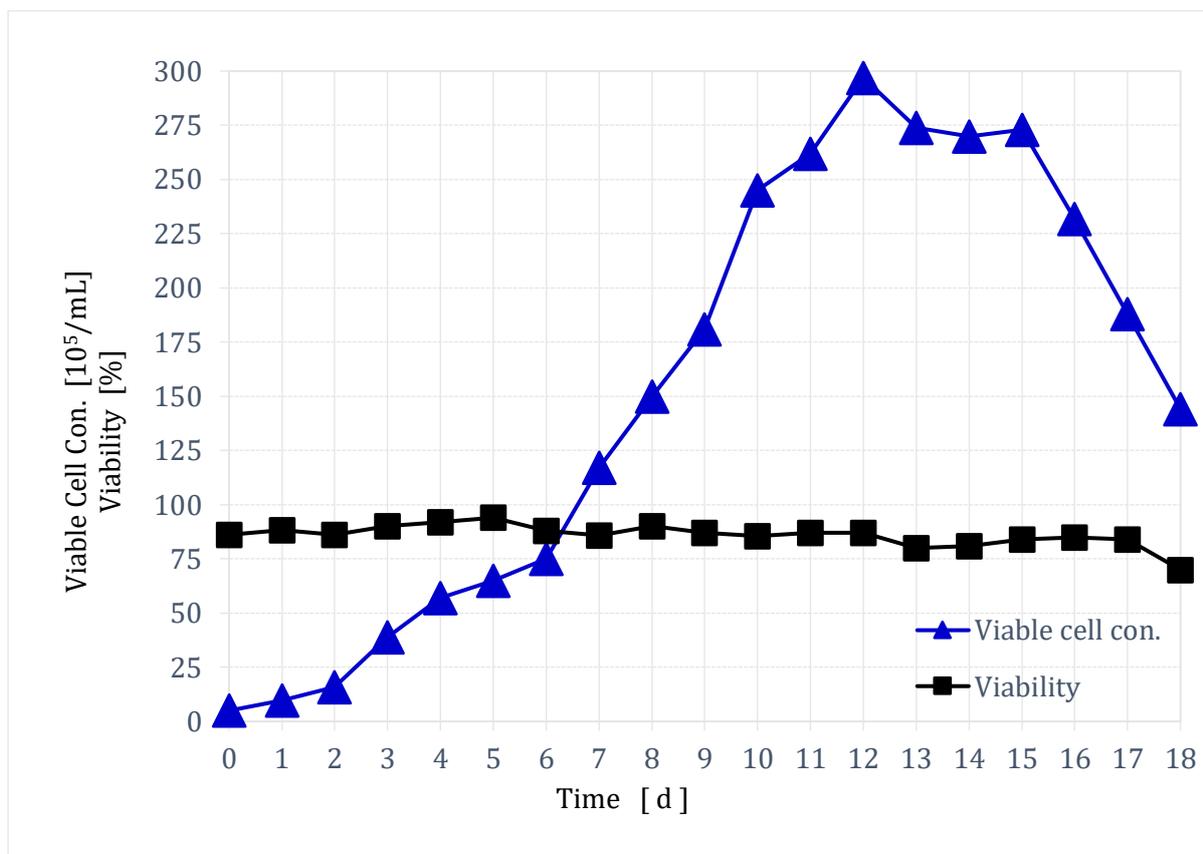


Figure 3: HEK293 suspension cells are cultured in bioreactor as fed-batch culture in ORCHID P with a combination of NERIUM and BEGONIA feeds for 18 days. For this experiment, Sartorius Biostat B stirred tank bioreactor was used with 5 L total volume and 3 L working volume. Inoculation cell concentration was 5×10^5 /mL.

MEDIA SUPPLY SECURITY

- Our media are manufactured by partners, Eminence Scientific (China) and Capricorn Scientific (Germany), ensuring a consistent global supply from two strategic locations.
- Produced under GMP standards by Eminence Scientific or Capricorn Scientific, our media comply with EMA and FDA regulations.
- Available in liquid form, in GMP or non-GMP grades, tailored to customer specifications.
- GMP batch sizes reach approximately 2,000 L of liquid media.
- Media are supplied directly by Eminence Scientific or Capricorn Scientific.
- Through our extensive distribution network, we deliver to nearly every country worldwide.
- We invite our valued customers to tour our cutting-edge production facilities in Germany or China.

TECHNICAL SUPPORT

Developer	Contact
	info@florabio.com.tr

The developer of the culture media and solutions is Florabio A.S. We welcome our valued customers to contact us about any questions you might have in media characteristics or application of medium in your lab. We would be please to share our experience with you.

ORDERING INFORMATION

Name	Application	Formulation	Volume	Catalogue number
ORCHID S	Stock culture medium	Liquid	1 L	ORS1-L1
ORCHID S	Stock culture medium	Liquid	0.5 L	ORS1-L05
ORCHID S	Stock culture medium	Powder	10 L	ORS1-P10
ORCHID P	Production medium	Liquid	1 L	ORP1-L1
ORCHID P	Production medium	Liquid	0.5 L	ORP1-L05
ORCHID P	Production medium	Powder	10 L	ORP1-P10
DAISY	Single cell cloning medium	Liquid	1 L	DSY1-L1
DAISY	Single cell cloning medium	Liquid	0.5 L	DSY1-L05
NERIUM	Feed A medium	Liquid	0.5 L	NRM1-L05
BEGONIA	Feed B medium	Liquid	0.1 L	BGN1-L01
BEGONIA	Feed B medium	Powder	1 L	BGN1-P1
HEK293 CELL LINE	Protein, virus, viral vector production			HEK-C1

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