

JASMINE

Transfection medium for HEK293 suspension cells.

Serum free, animal component free. For viral vector production through transient expression with polymers, e.g. Polyethyleneimine (PEI).



BENEFITS

JASMINE medium maximizes viral vector production of HEK293 suspension cells. Medium is particularly suitable for transfection with polymers, such as polyethyleneimine (PEI) and transient expression of vectors.

JASMINE is not suitable for recombinant protein production or virus production as vaccine. For this application, we have a separate medium (ORCHID).

JASMINE 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/ o 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

APPLICATION

Sub-Culturing Procedure

- Culture vessel: shake flask.
- 250 mL total volume, 50 mL working volume directly after inoculation
- Incubator settings: 36.5 °C, 7 % CO₂, humidified, 155 rpm shaking rate.
- Dispense medium into shake flask and equilibrate in incubator for 2 hours (36,5 °C, 7% CO₂).
- Inoculate medium with 8 x10⁵ viable cells/mL and subculture every 3rd day.
- Sub-culture cells at least 3 passages to have fully adaptation for optimal performance. Viable cell concentration shall reach at least 25x10⁵/mL before cell split.

Viral Vector Production Process

We have developed a kit for maximal viral vector production. The kit consists of JASMINE medium, polyethyleneimine, an enhancer and a booster.

Only the one JASMINE medium will be used in stock culture, transfection and production steps.

- Inoculate the cells with 8x10⁵ viable cells/mL in a 250 mL shake flask with 50 mL working volume.
- Two days after inoculation, take the cells for transfection, centrifuge them and resuspend the pellet in pre-warmed fresh JASMINE medium for production. Inoculation cell concentration in production flask shall be 30x10⁵viable cells/mL.
- DNA quantity shall be 1.5 µg/mL. Combine DNA and PEI (polyethyleneimine) in a vial in a ratio of 1:2 and add immediately 2.25 µL/mL enhancer and incubate 8 minutes in room temperature.
- Add DNA: PEI mixture to the cells dropwise as 10% of working volume and transfer the flask into the incubator for two hours with shaking.
- After two hours, add the booster 62.5 µL/mL of transfection volume and incubate the cells for three days with shaking.

PERFORMANCE

Stock Culture Data

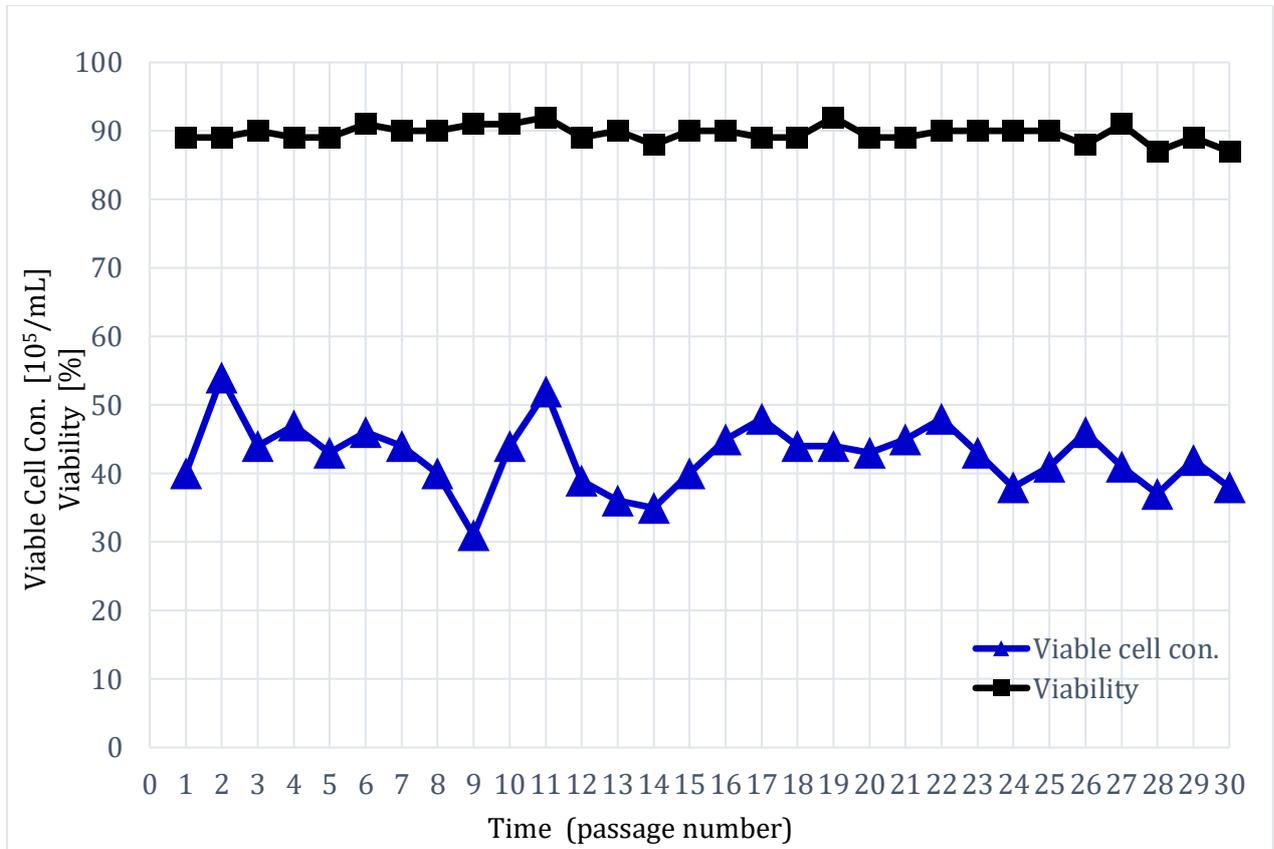


Figure 1: HEK293 suspension cells are cultured in stock culture (shake flask) in JASMINE medium for 30 passages. Inoculation cell concentration was kept constant. Cells were split every 3rd day.

AAV Titer Data

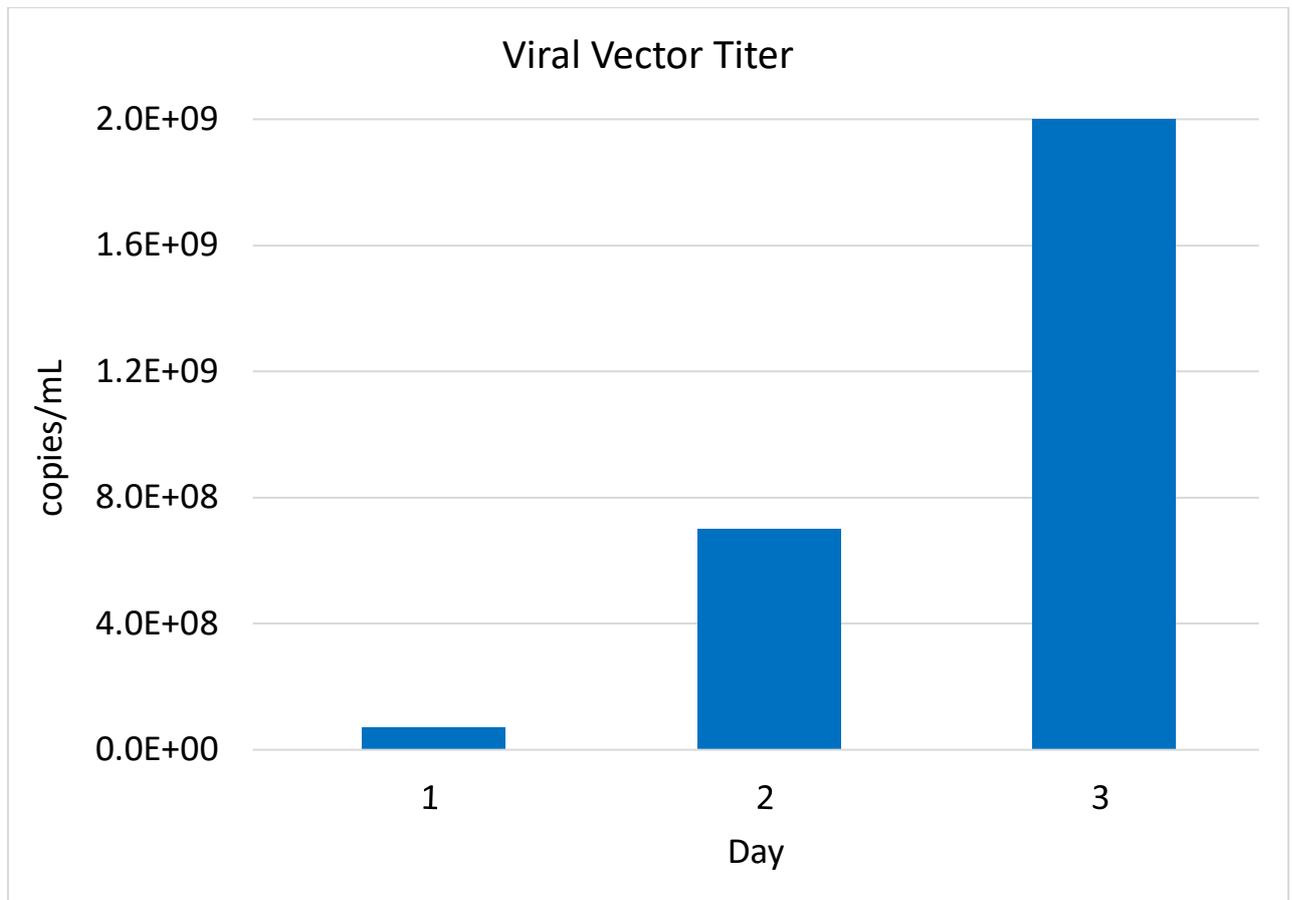


Figure 2: JASMINE medium works synergistically within the Viral Vector Production Kit of Florabio to produce AAV titer approximately 2×10^9 copies/mL.

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
JASMINE	Transfection medium	Liquid	1 L	JSM1-L1
JASMINE	Transfection medium	Liquid	0.5 L	JSM1-L05
JASMINE	Transfection medium	Powder	10 L	JSM1-P10
VIRAL VECTOR PRODUCTION KIT	Viral Vector Production Kit	Liquid	1 Box	TRF1-L1
TRANSFECTION BOOSTER	Transfection Booster for Viral Vector Production	Liquid	0.07 L	FTB1-L007
TRANSFECTION ENHANCER	Transfection Reagent for Viral Vector Production	Liquid	2.5 mL	FTE1-L0025
TRANSFECTION REAGENT	Transfection Reagent for Viral Vector Production	Liquid	3 mL	FTR1-L003
HEK293 CELL LINE	Protein, virus, viral vector production			HEK-C1

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