

TRANSFECTION ENHANCER

Transfection enhancer for viral vector production with HEK293 adherent and suspension cells.

For viral vector production through transient expression. Serum free, animal component free.



BENEFITS

TRANSFECTION ENHANCER is a chemically-defined reagent that has been designed to enhance viral vector production with HEK293 adherent and suspension cells. Enhancer increases transfection efficiency, resulting higher viral vector titer.

TRANSFECTION ENHANCER 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
Cell Line	HEK293 adherent and suspension cells
Storage Cond. Stable	-20 °C, protect from light 1 year
Application	Research and manufacturing

APPLICATION

VIRAL VECTOR PRODUCTION WITH SUSPENSION CELLS

- Inoculate a 250 mL shake flask with 8×10^5 cells/mL in 50 mL working volume. Incubate the culture two days (7% CO₂, 36.7 °C, humidified atmosphere, 150 rpm shaking rate).
- After two days, centrifuge the cells and resuspend the pellet in pre-warmed fresh medium. Inoculation cell concentration in production flask shall be 30×10^5 cells/mL.
- DNA concentration in culture shall be 1.5 µg/mL. Combine DNA and transfection reagent e.g., polyetylenimine (PEI) in a tube in a ratio of 1:2 and add immediately 2.25 µL/mL enhancer to the DNA:PEI mixture. Incubate the mixture 8 minutes in room temperature.
- Add DNA:PEI mixture including enhancer to the cell culture dropwise as 10% of culture volume. Incubate the culture in incubator for two hours under shaking.
- After 2 hours add the booster 62.5 µL/mL of culture volume and incubate the cells until harvest.

VIRAL VECTOR PRODUCTION WITH ADHERENT CELLS

- Inoculate a T flask with cells. Incubate the culture one day (7% CO₂, 36.7 °C, humidified atmosphere) and check the confluency. Cell confluency shall be between 70 and 80 %.
- DNA concentration in culture shall be 0.4 µg/ 1×10^4 cells. Combine DNA and transfection reagent, e.g. polyetylenimine (PEI) in a vial in a ratio of 1:2 and add immediately 2.25 µL/mL enhancer to the DNA:PEI mixture. Incubate the mixture 8 minutes in room temperature.
- Add DNA:PEI mixture including enhancer to the cell culture dropwise as 10% of culture volume. Incubate the culture in incubator for two hours.
- After 2 hours add the booster 62.5 µL/mL of culture volume and incubate the cells until harvest.

PERFORMANCE

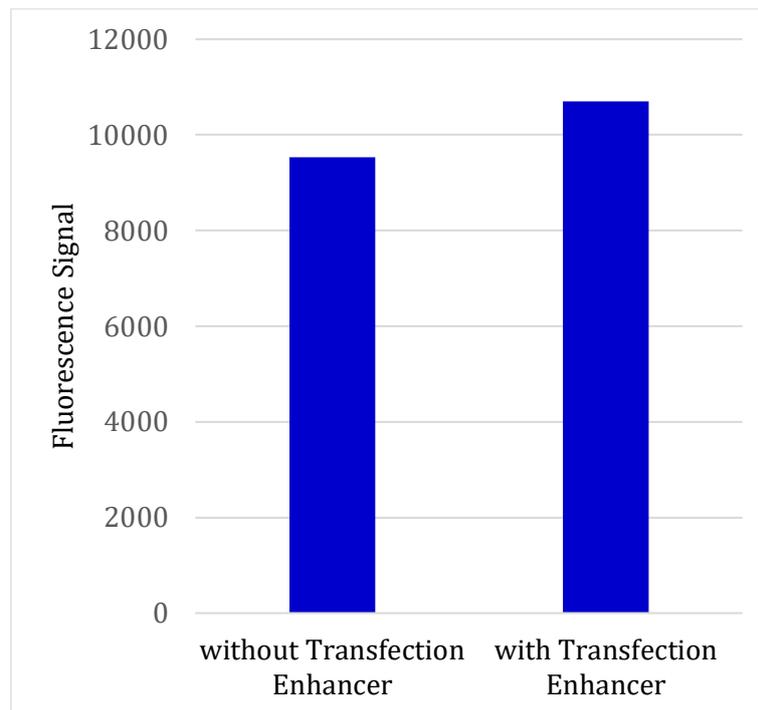


Figure 1: HEK suspension cells were transfected with GFP (green fluorescence protein) containing plasmid and transfection efficiency was measured as fluorescence signal at 24 hours post-transfection.

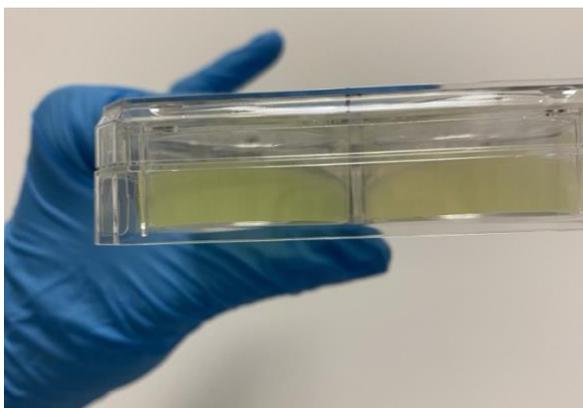


Figure 2: HEK suspension cells were transfected with GFP (green fluorescence protein). The expression level was visible with eyes, 3 days after transfection.

MEDIA SUPPLY SECURITY

 Eminence 埃美益	 CAPRICORN SCIENTIFIC
	 MADE IN GERMANY

- 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	0.5 L	JSM1-L05
JASMINE	Transfection Medium	Liquid	1 L	JSM1-L1
VIRAL VECTOR PRODUCTION KIT	Viral Vector Production Kit	Liquid	1 Box	TRF1-B1
TRANSFECTION BOOSTER	Transfection Booster for Viral Vector Production	Liquid	70 mL	FTB1-L007
TRANSFECTION ENHANCER	Transfection Reagent for Viral Vector Production	Liquid	2.5 mL	FTE1-L00025
TRANSFECTION REAGENT	Transfection Reagent for Viral Vector Production	Liquid	3 mL	FTR1-L0003
HEK293 CELL LINE	Protein, virus, viral vector production	Frozen	1 mL	HEK2-C1

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