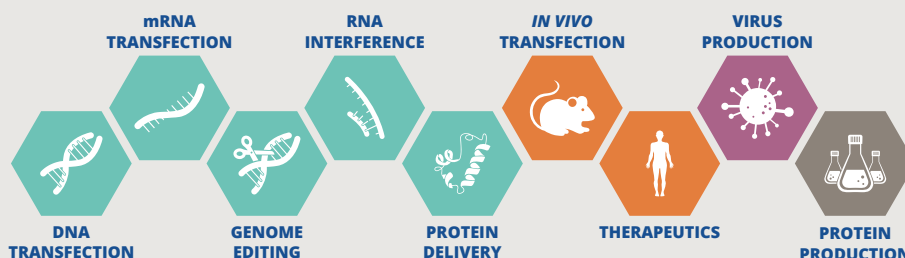


TRANSFECTION REAGENTS FOR PROTEIN & VIRAL VECTOR PRODUCTION

2020 • EDITION

Polyplus-transfection® is a biotechnology company that develops innovative solutions for the delivery of nucleic acids in life science research, *in vivo* transfection, biologics manufacturing and cell & gene therapies.

Because quality is our top priority, Polyplus-transfection® is ISO 9001-certified since 2002.



NEW PRODUCT

AAV production in suspension system: FectoVIR®-AAV

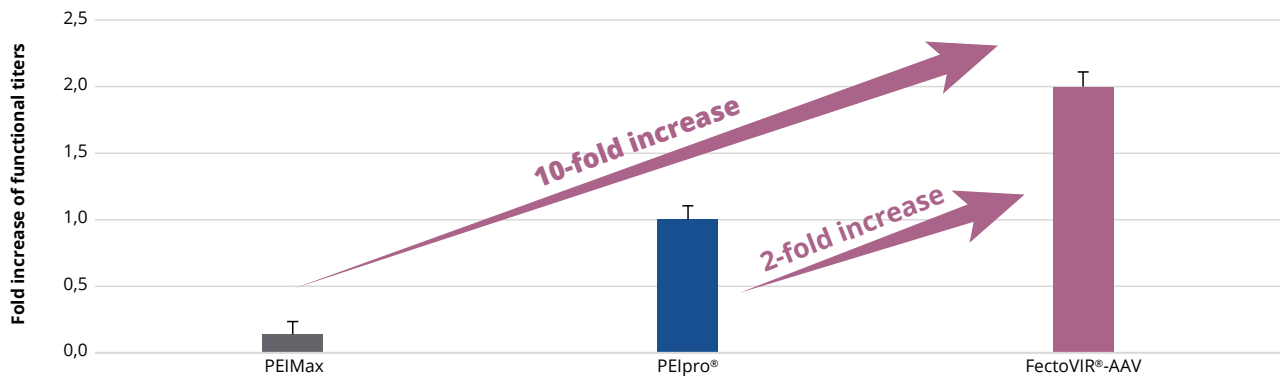
VIRUS
PRODUCTION



Next generation transfection reagent for rAAV production in suspension culture system.

- + **High performance:** Superior yields for rAAV production
- + **Scalability:** Developed for small to large scale production
- + **Flexibility:** Compatible with commercial culture media
- + **Trustworthy:** #1 transfection supplier of Gene & Cell therapy
- + **GMP compliance:** GMP grade coming soon

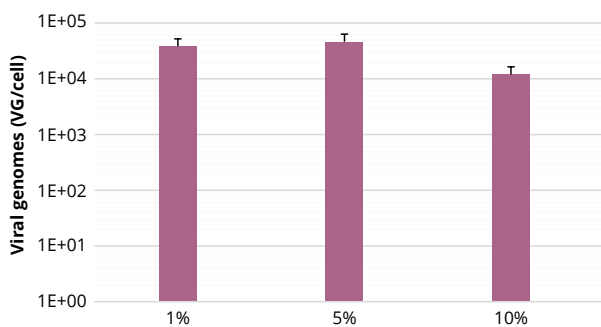
FectoVIR®-AAV outperforms its main competitors for AAV production in suspension cells:



rAAV-2-GFP were produced in suspension HEK-293T cells and harvested 72h post-transfection.

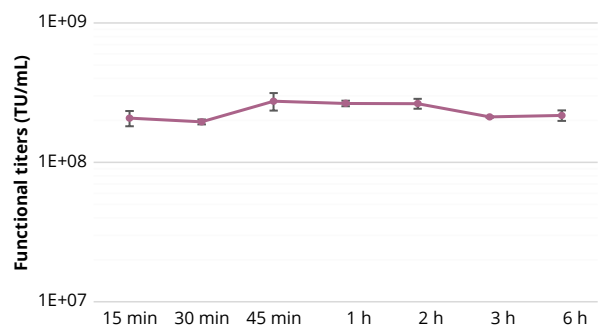
FectoVIR®-AAV allows a flexible process for small to large scale suspension cell systems:

Optimized to reduce complexation volumes down to 1%, enabling larger transfection volumes.



rAAV-2-GFP were produced in suspension HEK-293T cells and harvested 72h post-transfection.

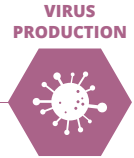
Longer stability of transfection complexes, providing longer timeframe to handle larger volumes.



rAAV-2-GFP were produced in suspension HEK-293T cells and harvested 72h post-transfection.

Scalable virus production:

PEIpro® Product range

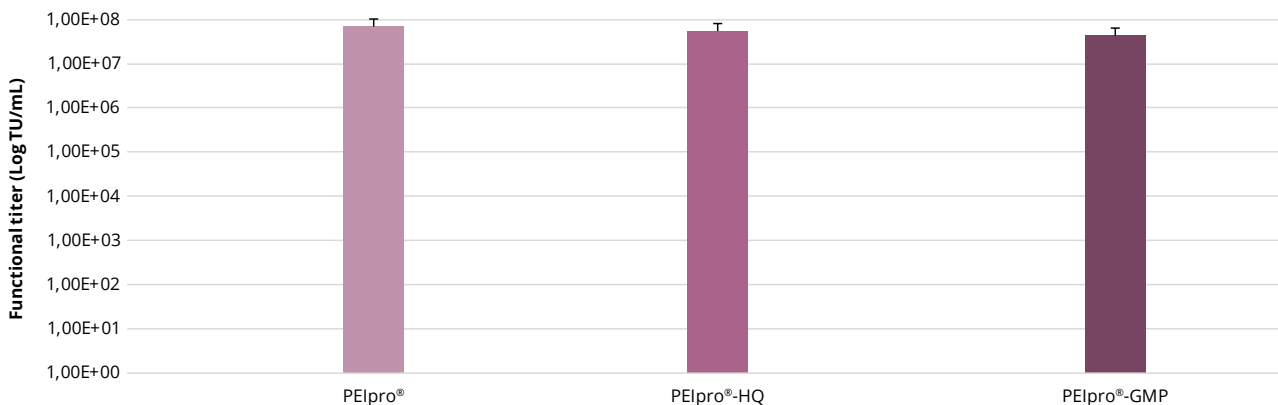


Versatile PEI-based transfection reagent for viral vector production

- + Gold standard transfection reagent for Gene and Cell therapy
- + Maintain virus yields during scale-up process up to commercialization
- + Obtain high virus yields in both adherent and suspension cell systems
- + Custom regulatory support to meet compliance requirements
- + Commercially available GMP-compliant product
- + Validated residual test available upon request

	Process development	Pre-clinical & early phase clinical trial	Clinical trials & commercialization
	PEIpro®	PEIpro®-HQ	PEIpro®-GMP
Quality Grade	R&D grade	Pre-clinical grade	GMP grade
Composition	Ready to use, chemically defined and animal derived component free		
Packaging	Bottles	Bottles	Bottles Bags (closed system)
Fill & finish manufacturing process	Sterile filtration	Sterile filtration	Sterile filtration Validated aseptic process
Quality Controls	Standard QCs	Extended QCs to assess Identity, Potency, Purity and Safety	Validated QCs according to European Pharmacopeia assessing Identity, Potency, Purity and Safety
Audit	According to ISO 9001 2015	According to ISO 9001 2015	According to ICH Q7, GMP Part II and Annex I

Range of PEIpro® quality grade reagents available for each step of nucleic acid-mediated viral vector manufacturing.



Three quality grades of PEIpro® for the same efficiency. Transfections were performed on HEK-293T cells using standard protocols.

Ease the scale up of your viral vector production with our complete range of PEIpro® transfection reagents.

Protein production in suspension cells: FectoPRO® and FectoCHO® Expression System

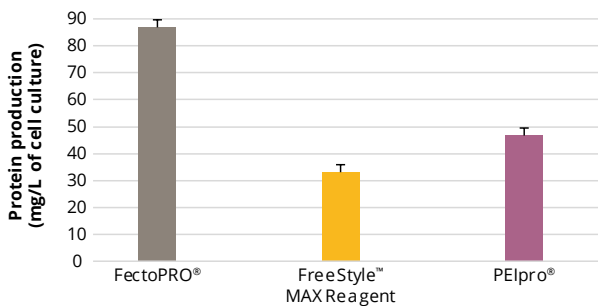
PROTEIN
PRODUCTION



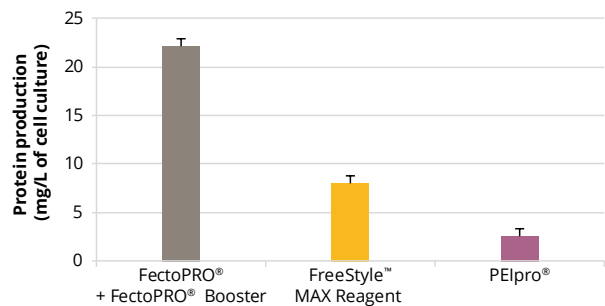
Achieve superior protein yields using transient gene expression.

- + Amazing protein and antibody production yields
- + Cost-effective Transient Gene Expression using lowest plasmid DNA amount
- + Compatible with various mammalian expression media & cell systems
- + Compliant with biomanufacturing guidelines
- + Adapted to high density cell systems

FectoPRO® gives amazing protein yields in suspension HEK-293 and CHO cells.



Transfections were performed on HEK-293T cells following standard protocols. Protein yields were measured 120h post transfection.

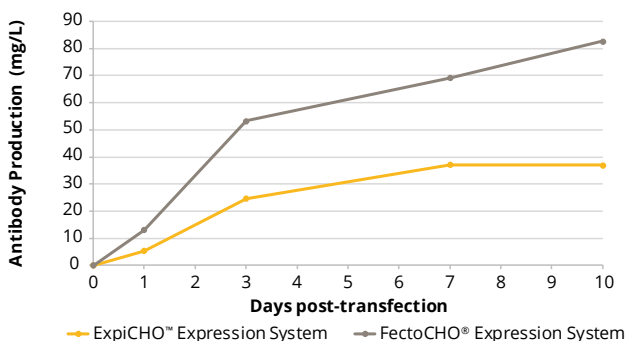


Transfections were performed on CHO cells following standard protocols. Protein yields were measured 72h post transfection.

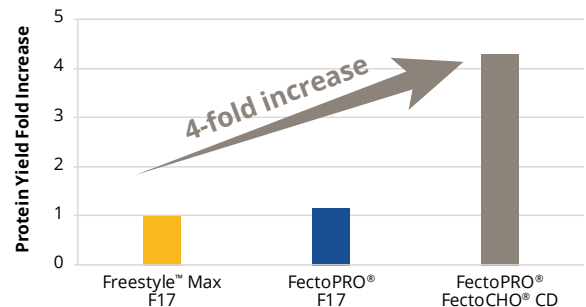
FectoCHO® Expression System is a 3 component kit optimized to work together:

- + FectoPRO® Transfection reagent to produce amazing protein yields using lowest DNA amounts
- + FectoCHO® CD Expression Medium a chemically defined cell culture medium optimized for transient gene expression
- + FectoPRO® Expression Booster that enhances gene expression to boost the protein production

FectoCHO® Expression System outperforms its main competitors.



Transfections were performed on ExpiCHO™ cells following standard protocols.



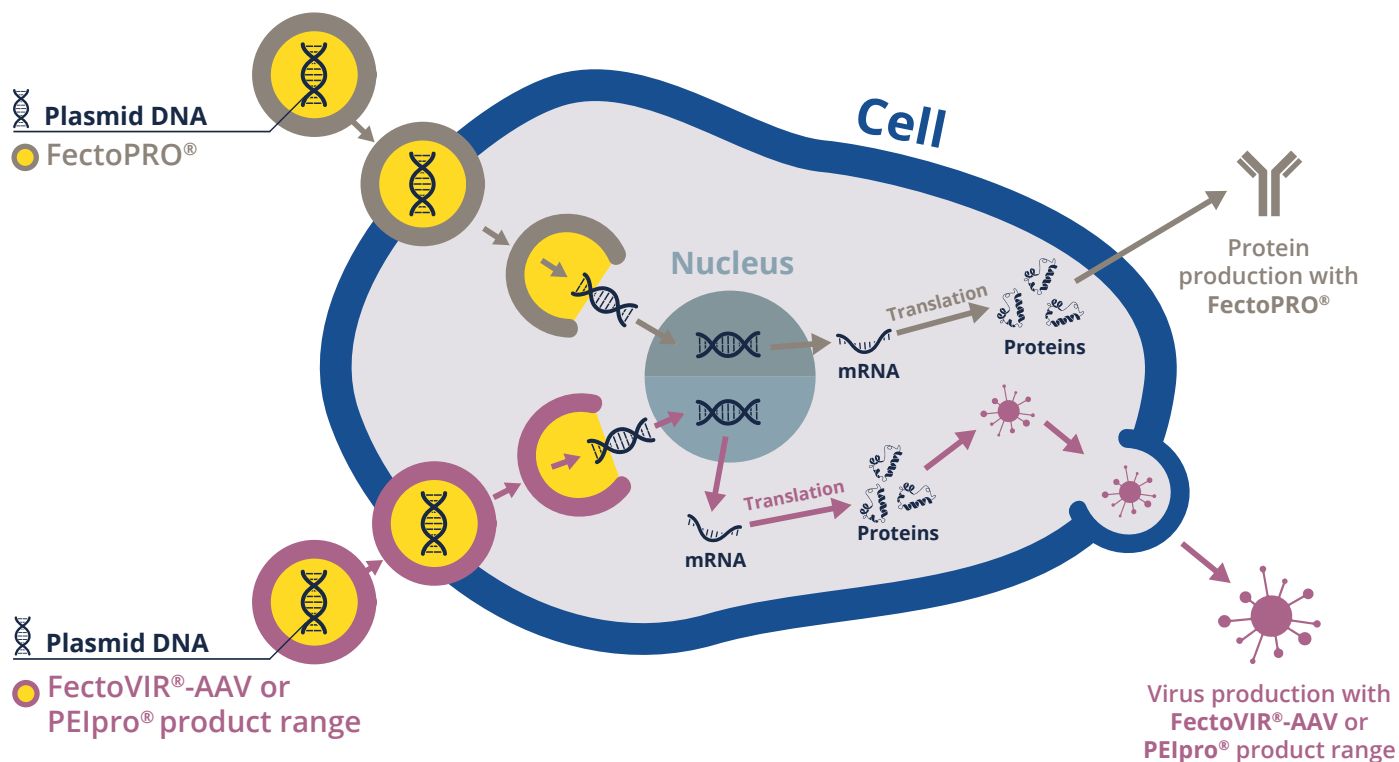
Transfections were performed on CHO-K1 cells following standard protocols. Similar results have been obtained in CHO-S cells (2-fold increase).

Transfection reagents for protein & viral vector production:

PROTEIN
PRODUCTION



VIRUS
PRODUCTION



● FectoPRO®

● FectoVIR®-AAV or PEIpro® product range



CONTACT OUR SCIENTIFIC AND TECHNICAL SUPPORT



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Product		Product Size	Reference number
Protein production			
FectoPRO® Transfection reagent		1 mL FectoPRO® + 1 mL FectoPRO® Booster	116-001
		10 mL FectoPRO® + 10 mL FectoPRO® Booster	116-010
		4 x 10 mL FectoPRO® + 4 x 10 mL FectoPRO® Booster	116-040
FectoCHO® Expression System		1 mL FectoPRO® + 1 mL FectoPRO® Booster + 1 L FectoCHO® CD Expression Medium	716-01LKIT
FectoCHO® CD Expression Medium		1 L FectoCHO® CD Expression Medium	716-01L
		6 L FectoCHO® CD Expression Medium	716-06L
Virus production			
PEIpro® Transfection reagent		1.5 mL	115-0015
		10 mL	115-010
		4 x 10 mL	115-040
		100 mL	115-100
		4 x 100 mL	115-400
PEIpro®-HQ Transfection reagent		4 x 100 mL	301-400
		10 x 100 mL	301-01K
		1 L	301-01L
PEIpro®-GMP Transfection reagent		1 L bag	125-01L
		300 mL bag	127-300
		100 mL bottle	126-100
		10 x 10 mL bottles	126-10x10
FectoVIR®-AAV Transfection reagent		1 mL	120-001
		10 mL	120-010
		100 mL	120-100

Within Polyplus-transfection®, we have a team of Ph.D scientists that is here to assist you while developing your process with our transfection reagent.

The regulatory, scientific and technical support is dedicated to your success, feel free to contact us, you will receive a personalized answer within 48 hours.



CONTACT OUR SCIENTIFIC AND TECHNICAL SUPPORT

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94% satisfied customers

Polyplus-transfection® provides solutions for other applications such as gene expression, RNA interference, *in vivo* transfection, CRISPR, etc.... Please contact our scientific support for more information.

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