



# TRANSFECTION REAGENTS FOR PROTEIN PRODUCTION

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Polyplus® 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® is ISO 9001-certified since 2002.



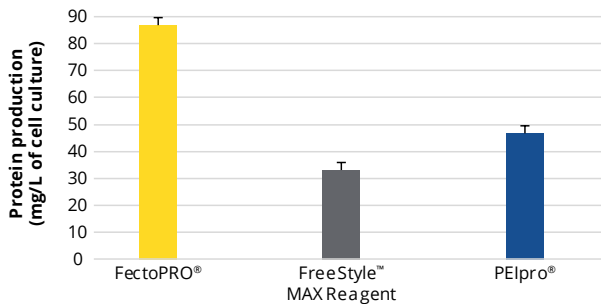
**Polyplus** 

# High yields in suspension CHO & HEK-293

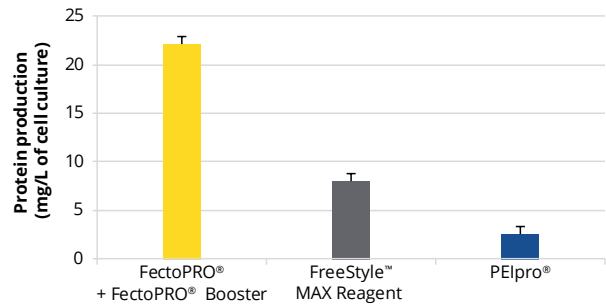
## FectoPRO®

- + Amazing protein and antibody production yields in CHO and HEK-293 cells
- + Cost-effective Transient Gene Expression with lower plasmid DNA amount
- + Compatible with various mammalian expression media & high cell density systems
- + Chemically defined and animal derived component free

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

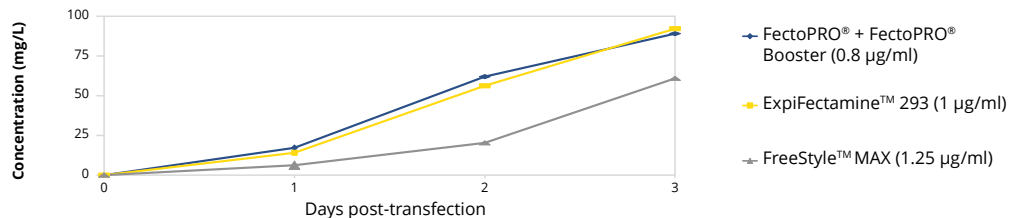


Transfections were performed on HEK-293T cells following standard protocols. Protein yields were measured 120h post transfection.



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

FectoPRO® is optimized to ensure highest protein yield with minimal plasmid DNA amount even in high cell density systems:



Transfection were performed on high density Expi293F cells following standard protocol (Expifectamine™) or using recommended protocol with FectoPRO® or Freestyle™ MAX. Protein yields were measured post-transfection on days 1-3.

FectoPRO® is compatible with most transient production processes in suspension HEK-293 and CHO cells:

Culture medium	Protein yields using FectoPRO®
Expi293™ (Gibco®)	+++
Freestyle™ 293 (Gibco®)	+++
Freestyle™ F17 (Gibco®)	+++
HyClone™ HyCell™ TransFex™-H (GE Healthcare™)	-
Pro293™ (Lonza®)	-
CD293™ (Gibco®)	-
FectoCHO® CD Medium (Polyplus®)	++++
ExpiCHO™ (Gibco®)	+++
Freestyle™ CHO (Gibco®)	+++
ProCHO™ 4 (Lonza®)	+++
CD-CHO™ (Gibco®)	+++
Freestyle™ F17 (Gibco®)	+++
BalanCD® Transfectory™ CHO (Irvine Scientific®)	+++
CD-FortiCHO™ (Gibco®)	+++
CD-OptiCHO™ (Gibco®)	-
HyClone™ CDM4 CHO (GE Healthcare™)	-
PowerCHO™ 2 (Lonza®)	-

Maintained protein yields in most commonly used HEK-293 and CHO culture media.

# Enhanced transient protein production in CHO suspension cells

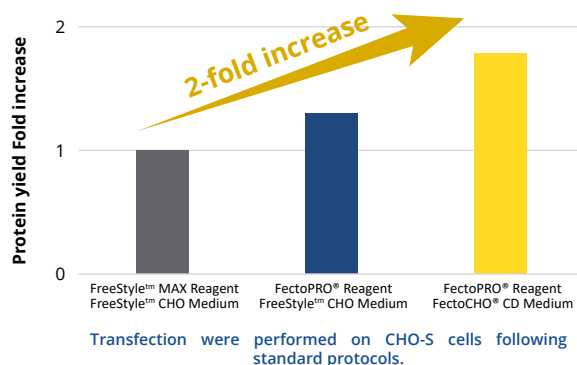
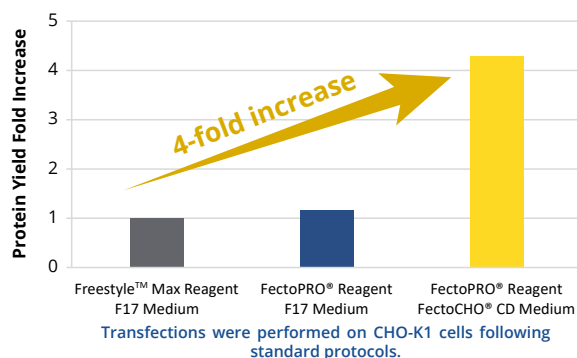
## FectoCHO<sup>®</sup> expression system

- + High protein and antibody production yields in CHO cells
- + Cost-effective Transient Gene Expression with lower plasmid DNA amount
- + Compatible with various suspension CHO cell density systems
- + Chemically defined and animal derived component free

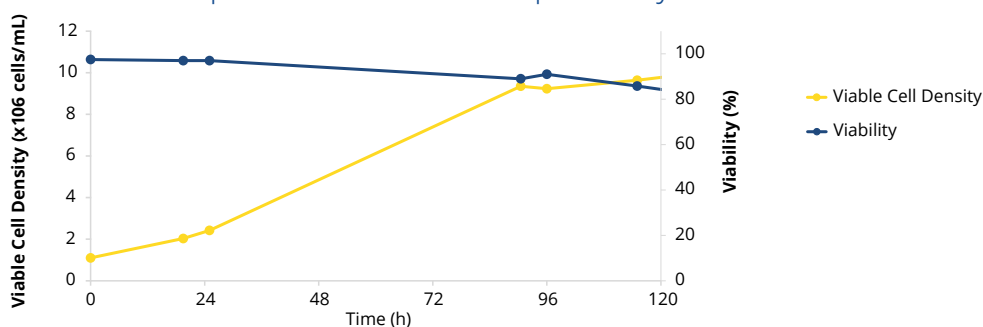
FectoCHO<sup>®</sup> Expression System is a 3 component kit optimized to work together:

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

FectoCHO<sup>®</sup> expression systems ensure high production yields in CHO-K1, CHO-S and in high density ExpiCHO cells:



FectoCHO<sup>®</sup> expression system ensures maintained cell viability during the transfection process for maximal protein yields:



Transfection was performed on CHO-S cells following standard protocol. Cell viability and density were monitored regularly using Trypan Blue Exclusion.

Product	Product Size	Part number
<b>FectoPRO® Transfection Reagent</b>	1 mL FectoPRO® + 1 mL FectoPRO® Booster	101000014
	10 mL FectoPRO® + 10 mL FectoPRO® Booster	101000007
	100 mL FectoPRO® + 100 mL FectoPRO® Booster	101000019
<b>FectoCHO® Expression System</b>	1 mL FectoPRO® + 1 mL FectoPRO® Booster + 1 L FectoCHO® CD Expression Medium	101000011
<b>FectoCHO® CD Expression Medium</b>	6 x 1 L FectoCHO® CD Expression Medium	101000003

Within Polyplus®, 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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**95% satisfied customers**

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