

Power Your Transient Expression —Trans 293 Kit Pro

The upgraded Trans 293 Kit Pro includes 3 components: CD 293 01 basal medium, ALLY 293 feed medium, and 293 PEI Plus transfection reagent, all of which are chemically defined and free of serum, animal-origin components, or hydrolysates. The kit is well suited for high density suspension culture and is experimentally proven to deliver high transfection efficiency and protein yield for multiple HEK293 cell lines.

Product Information

Trans 293 Kit Pro



Key Features

- **CD 293 01**—Chemically defined and compatible with multiple HEK293 subtypes; supports stable, high-quality suspension culture at high cell density.
- **ALLY 293 Feed**—An upgraded formulation that significantly improves protein yield and product quality.
- **293 PEI Plus**— Enables consistent, rapid plasmid delivery that leads to high transfection efficiency.

Key Improvements

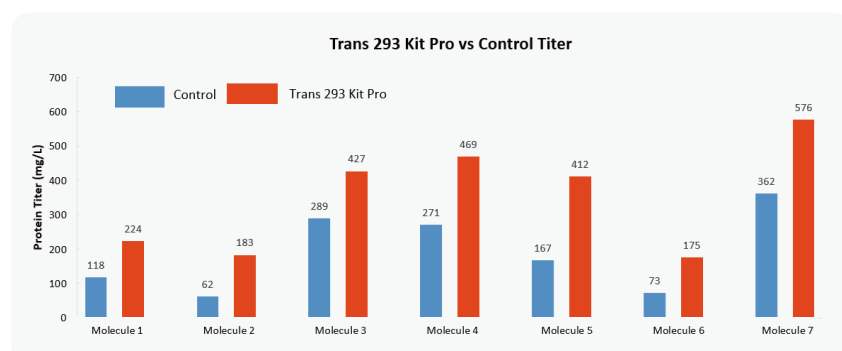
1. Simplified workflow	a Enhancer incorporated in feed medium	b No need for temperature shift
	c Single-feeding strategy	d No need for additional glucose supplementation

2. Upgraded PEI transfection component

Significantly improves transfection efficiency and protein yield.

Case Studies

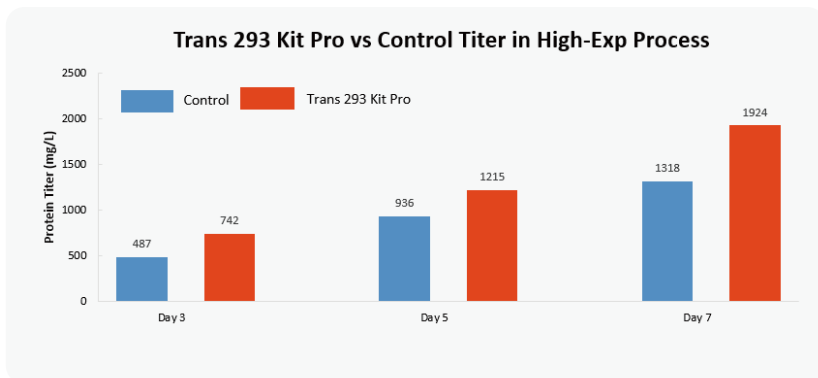
Case 1: Expression of 7 Proteins in HEK293 Cells



◀ Figure 1. Transient expression of 7 difficult-to-express proteins in HEK293 cells: Trans 293 Kit Pro versus control

Trans 293 Kit Pro delivered markedly higher expression for all 7 proteins, with several molecules showing more than a twofold increase, underscoring its excellent performance on the transient transfection of difficult-to-express proteins.

Case 2: Monoclonal Antibody (mAb) Titer in High-Expression Process



◀ Figure 2. Transient mAb expression in a high-expressing HEK293 culture: Trans 293 Kit Pro versus control

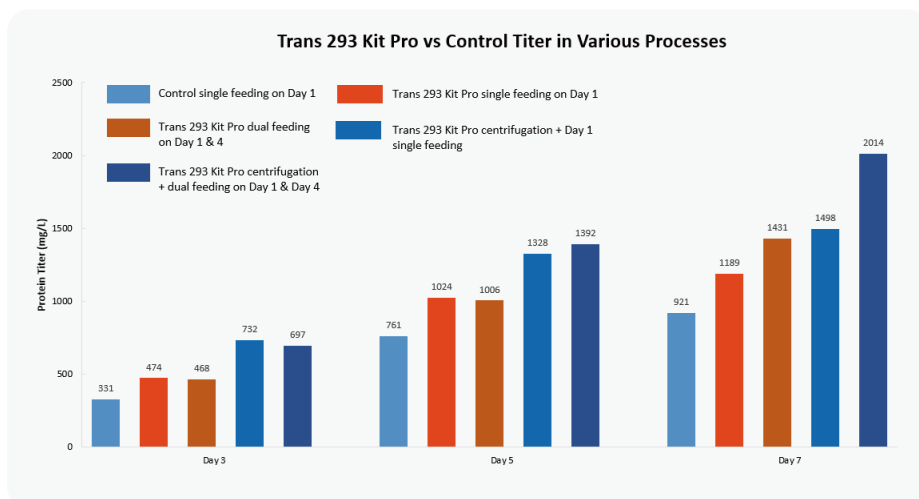
Trans 293 Kit Pro consistently achieved higher titers over a 7-day culture period. At Day 7, mAb titer almost reached 2 g/L, representing a 45% increase over the control.

Case 3: Transient mAb Expression Across Different Processes in HEK293F Culture

A comparative transient-expression study of an antibody in HEK293F cells was performed under the following four process conditions:

- Single feeding on Day 1
- Dual feeding on Day 1 and Day 4
- Centrifugation before transfection + single feeding on Day 1
- Centrifugation before transfection + dual feeding on Day 1 and Day 4

► Figure 3. Transient mAb expression across different processes: Trans 293 Kit Pro versus control.



Trans 293 Kit Pro consistently delivered higher titers than the control, with more than 29% improvement on Day 7. No significant difference was observed between single and dual feeding during the first five days, indicating that a simplified single-feed strategy can maintain expression performance while reducing process complexity.

With optimized feeding strategy and pre-transfection centrifugation, titer on Day 7 exceeded 2 g/L—110% higher than the control—suggesting robust expression performance and broad process adaptability.

JS Biosciences Co., Ltd.



Locations:

Shanghai, CN | Busan, South Korea | Pleasanton, CA, USA

Contact Us:

400-004-6572

400-00GOJSB

marketing@jianshunbio.com

www.jianshunbio.com



Scan the QR code
to follow us on LinkedIn