

High-Yield CHO Transient Expression

—Trans CHO Kit Plus

Trans CHO Kit Plus is an upgraded transient expression system. Its basal and feed media are chemically defined and free of serum, hydrolysates, or animal-derived components. The system delivers high transfection rates and protein yields, is compatible with multiple CHO cell lines, requires no incubation step, and supports automated workflows.

Product Information

Trans CHO Kit Plus



Key Features

- **Trans Plus:** An upgraded, chemically defined basal medium compatible with multiple CHO cell subtypes, supporting high-quality, high-density suspension culture.
- **ALLY Feed 100 Pro:** An upgraded feed medium designed to work in tandem with Trans Plus, significantly increasing protein titer and product quality.
- **CHO Enhancer:** Promotes rapid, high-level expression of target proteins and is fully compatible with the upgraded media system.
- **Trans 1:** Enables efficient gene delivery and robust protein expression with consistent performance.

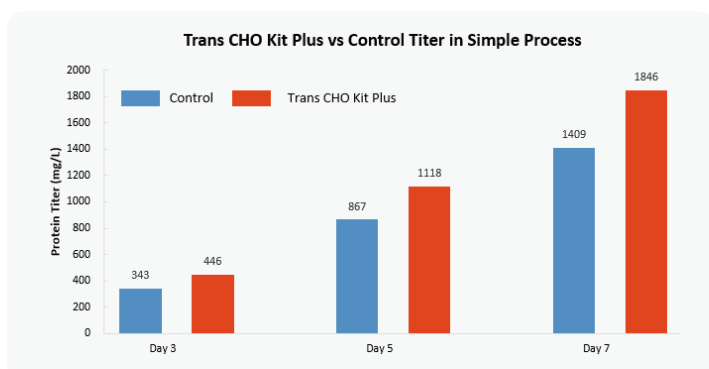
Key Benefits

- **Simplified Workflow:** A streamlined workflow with an optimized glucose formulation eliminates the need for additional glucose supplementation, reduces contamination risk and improves batch-to-batch consistency.
- **Enhanced Expression Efficiency:** Protein yield improved by 30%, making the system suitable for a wide range of recombinant protein transient expression applications.
- **Improved Product Quality:** Supports proper intracellular protein folding and reduces mispairing in complex proteins.

Case Studies

Case 1: mAb Expression in CHO-K1 with a Simple Process

Cells were seeded at 2×10^6 cells/mL one day before transfection and reached 6×10^6 cells/mL on the day of transfection; plasmid concentration was adjusted to 3 μ g/mL.

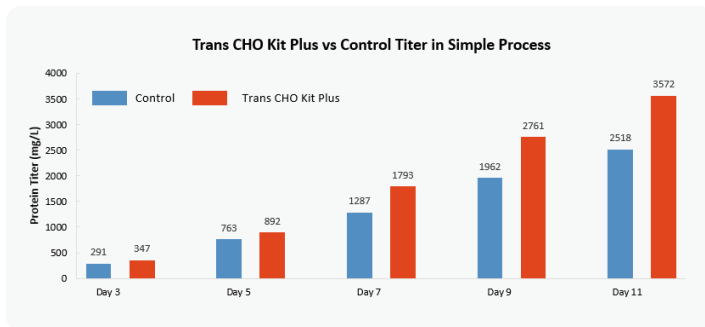


◀ Figure 1. Antibody titer over 7 days in CHO-K1 cells using Trans CHO Kit Plus versus control under a simple process.

Trans CHO Kit Plus delivered significantly higher expression over the 7-day culture, with a 30% improvement in expression level. Titer exceeded 1000 mg/L on Day 5, demonstrating superior transient transfection efficiency and productivity.

Case 2: mAb Expression in CHO-K1 with a Simple Process

Cell density was adjusted to 6×10^6 cells/mL on the day of transfection, and the culture was fed 2–3 times during cultivation.

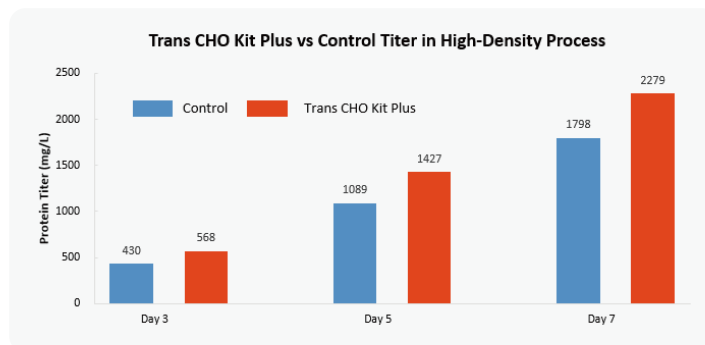


◀ Figure 2. Antibody titer over 11 days in CHO-K1 cells using Trans CHO Kit Plus versus control under a simple process.

Over the 11-day culture, Trans CHO Kit Plus maintained significantly higher expression than the control, reaching 3500 mg/L on Day 11 and delivering approximately 40% higher productivity, demonstrating superior transient transfection efficiency and product yield.

Case 3: mAb Expression in CHO-K1 with a High-Density Process

Cells were seeded at 3×10^6 cells/mL one day before transfection and reached 9×10^6 cells/mL on the day of transfection; plasmid concentration was adjusted to 3 μ g/mL.

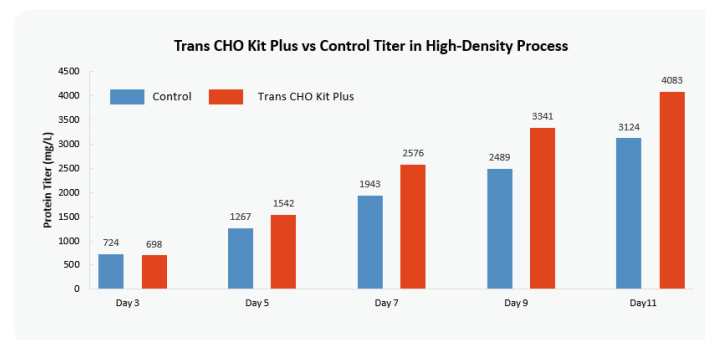


◀ Figure 3. Antibody titer over 7 days in CHO-K1 cells using Trans CHO Kit Plus versus control under a high-density process.

Trans CHO Kit Plus showed significantly higher expression on Days 3, 5, and 7, with a 30% improvement in expression level. Titer exceeded 2200 mg/L on Day 7, demonstrating superior transient transfection efficiency and productivity.

Case 4: mAb Expression in CHO-K1 with a High-Density Process

Cell density was adjusted to 9×10^6 cells/mL on the day of transfection, and the culture was fed 2–3 times during cultivation.



◀ Figure 4. Antibody titer over 11 days in CHO-K1 cells using Trans CHO Kit Plus versus control under a high-density process.

Across the full 11-day culture, Trans CHO Kit Plus maintained significantly higher expression than the control, reaching 4000 mg/L on Day 11 and delivering approximately 30% higher productivity, demonstrating superior transient transfection efficiency and product yield.

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