

# CTLA4 Ig-24 Chinese Hamster Ovary Cell Line

SKU: CDS3655 | Category: Cell Lines — Other Established Cell Lines

**Validation & Biomarker Data Guide · Lineage classification: Engineered production / host cell line (e.g. HEK293, CHO, Vero, BHK variants)**

## 1. Product Overview

CTLA4 Ig-24 Chinese Hamster Ovary Cell Line is an established cell line for controlled in vitro research. It can support cell biology, growth and viability studies, signaling and pathway research, drug-response testing, screening and assay development under validated culture conditions. The model provides a reproducible cellular system for basic and translational research. For research use only.

Growth type: Adherent Cells | Tumorigenic status: Normal Cells | Pack size: 1 x 1 million cells

## 2. Typical Applications

- Cell-based assay development, pathway and mechanism studies, biomarker characterization, and comparative functional testing consistent with this lineage.

## 3. Identity & Phenotypic Marker Panel

A representative identity panel for engineered production / host cell line (e.g. hek293, cho, vero, bhk variants) products is shown below. Actual per-lot Certificates of Analysis should be consulted for verified identity data.

| Marker                                   | Expected Result | Range            |
|------------------------------------------|-----------------|------------------|
| Transfection efficiency (reporter-based) | Positive        | 60–95% positive  |
| Recombinant protein/titer output         | Positive        | 50–95% positive  |
| Mycoplasma / adventitious agent markers  | Negative / low  | ≤2% (background) |

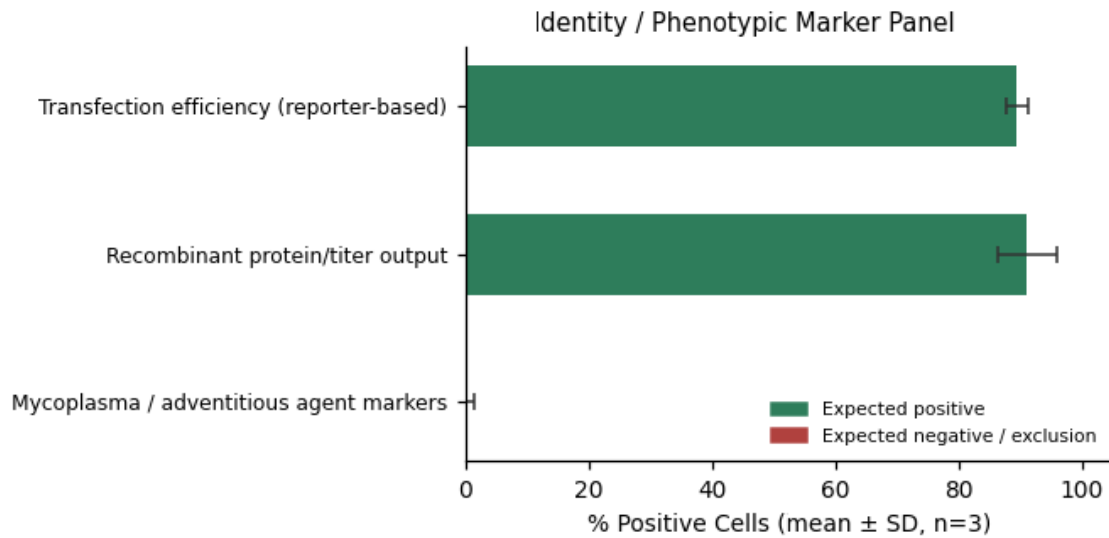


Figure 1. Marker expression profile (mean ± SD, n = 3 replicates).

#### 4. Growth Kinetics & Viability

Growth and viability trends over 120 hours in standard culture conditions.

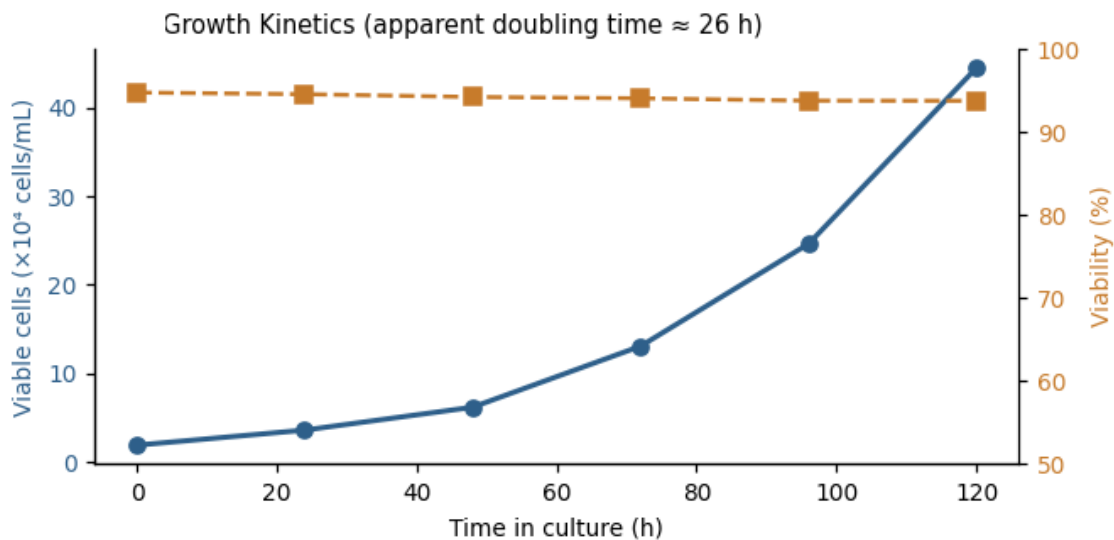


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

#### 5. Functional Validation Assay

**Transfection efficiency / production titer assay:** Transient transfection with a reporter construct (GFP/luciferase) to confirm transfectability, and/or batch culture with product titer quantified by ELISA or activity assay to confirm production performance.

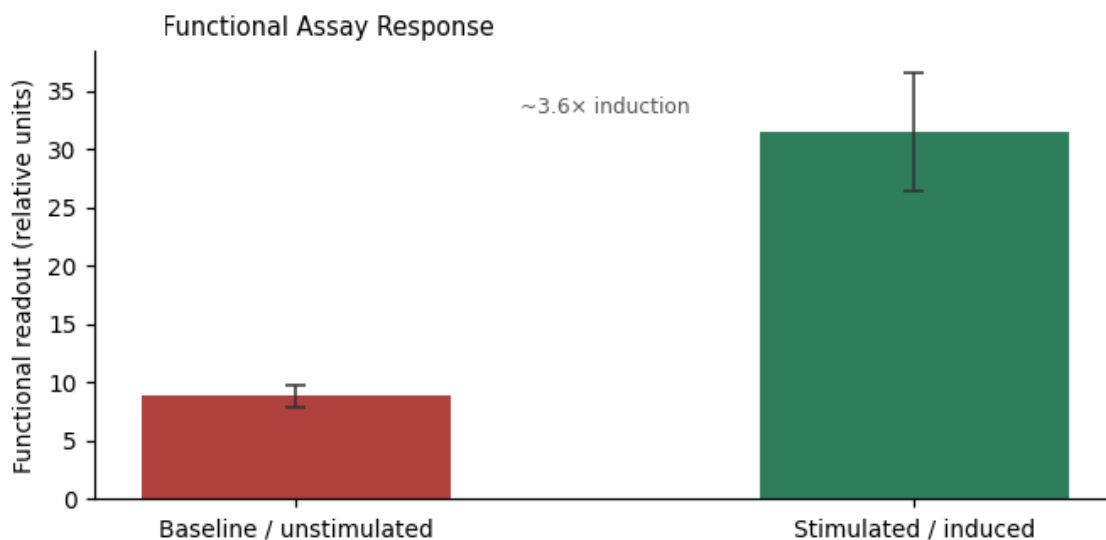


Figure 3. Functional assay readout — ~3.6x induction over baseline.

## 6. QC Acceptance Criteria

| Acceptance Criterion                                      | Result                        |
|-----------------------------------------------------------|-------------------------------|
| Transfection efficiency within historical reference range | PASS                          |
| Negative for mycoplasma/adventitious agents by PCR        | PASS                          |
| Karyotype/STR consistent with parental line record        | PASS                          |
| Apparent population doubling time                         | ~ 26 hours                    |
| Functional assay outcome                                  | ~3.6x induction over baseline |

## 7. Handling & Culture Notes

- Refer to the product-specific Certificate of Analysis and datasheet for validated culture medium, seeding density, and passaging recommendations.
- As with any primary cell or cell line, confirm mycoplasma-negative status, expected morphology by phase-contrast microscopy, and viability by trypan blue or equivalent dye-exclusion assay at each passage before use in downstream assays.