

# Lec1 Hamster Ovary Cell Line

SKU: CDS3550 | Category: Cell Lines — Other Established Cell Lines

**Validation & Biomarker Data Guide** · Lineage classification: Normal/primary adherent cell (general)

## 1. Product Overview

Lec1 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 normal/primary adherent cell (general) products is shown below. Actual per-lot Certificates of Analysis should be consulted for verified identity data.

| Marker                                           | Expected Result | Range            |
|--------------------------------------------------|-----------------|------------------|
| Lineage-specific marker panel (product-specific) | Positive        | 65–95% positive  |
| CD45                                             | Negative / low  | ≤8% (background) |

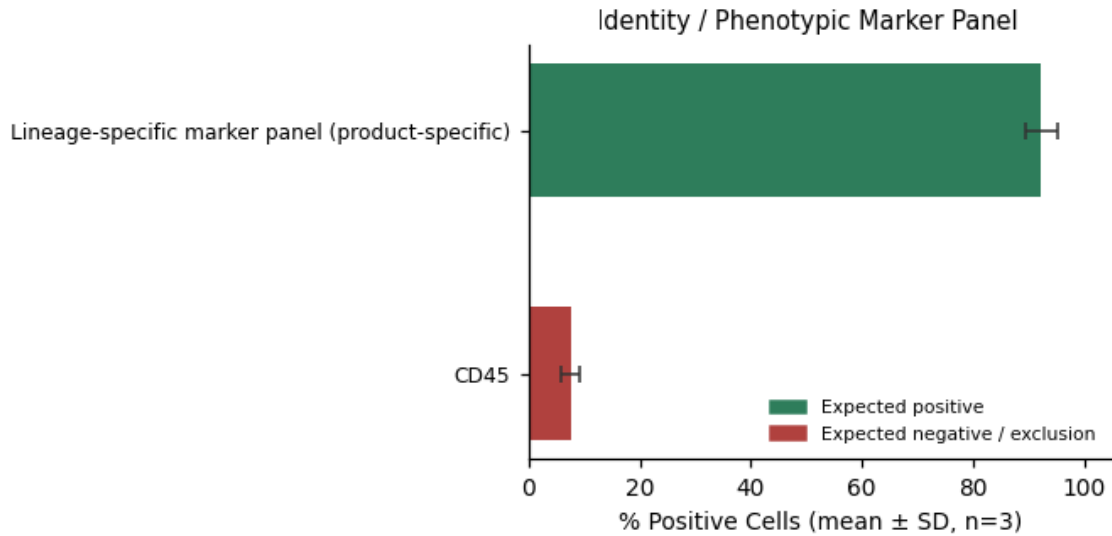


Figure 1. Marker expression profile (mean  $\pm$  SD, n = 3 replicates).

#### 4. Growth Kinetics & Viability

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

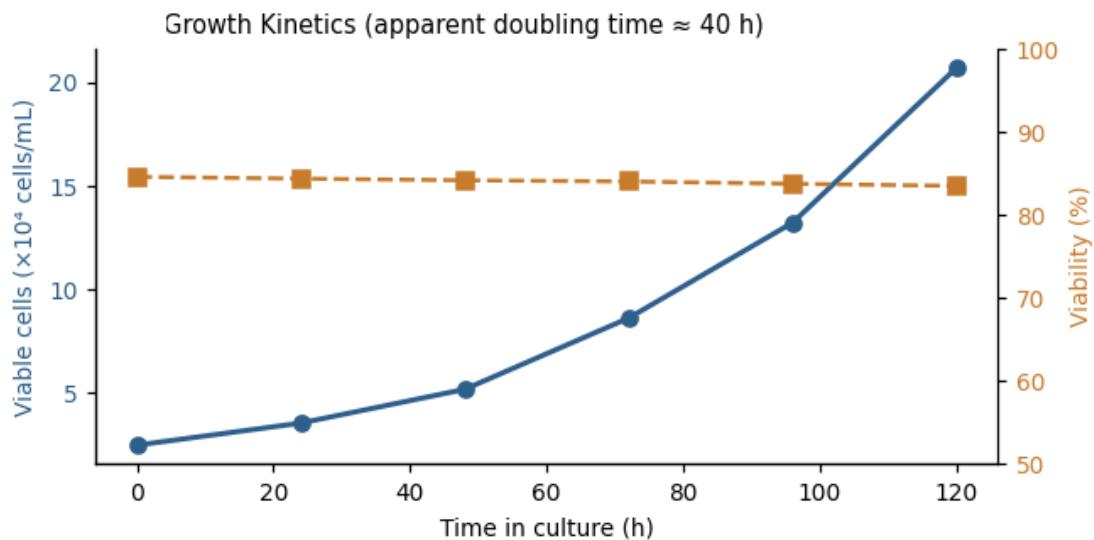


Figure 2. Growth curve (viable cell density, left axis) and viability trend (right axis).

#### 5. Functional Validation Assay

**Lineage-specific functional assay:** Functional assay appropriate to tissue of origin (e.g. differentiation, secretion, or barrier-formation assay) to confirm the cell retains expected physiological behavior.

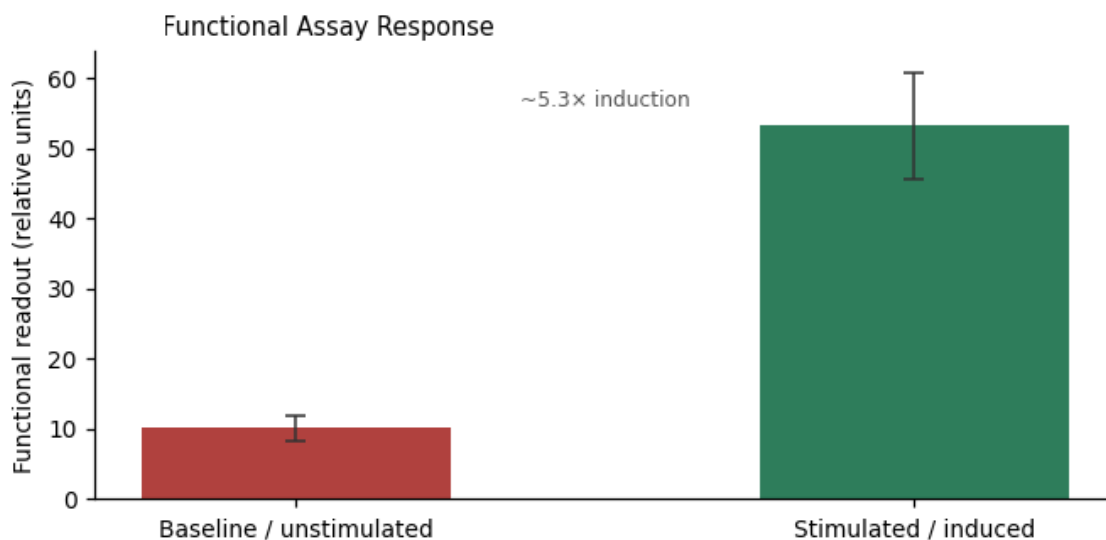


Figure 3. Functional assay readout — ~5.3× induction over baseline.

## 6. QC Acceptance Criteria

| Acceptance Criterion                                                    | Result                        |
|-------------------------------------------------------------------------|-------------------------------|
| Marker panel consistent with lineage reference sheet                    | PASS                          |
| Morphology consistent with reference image by phase-contrast microscopy | PASS                          |
| Negative for mycoplasma by PCR                                          | PASS                          |
| Apparent population doubling time                                       | ≈ 40 hours                    |
| Functional assay outcome                                                | ~5.3× 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.