

Product sheet

EL4 | 300653

EL4

**Description**  
EL4 is a mouse T cell line derived from a 4-week-old male C57BL/6N mouse. It is a CD3<sup>+</sup> CD4<sup>+</sup> T cell line that secretes IL-2 and interferon-γ. EL4 cells are used in various immunological assays, including T cell activation, proliferation, and cytokine production.

**Organism** Mouse

**Tissue** T cells

**Disease** T cell leukemia/lymphoma

**Applications** T cell activation, proliferation, cytokine production

**Synonyms** EL-4, EL 4, E.L.4

Characteristics

**Breed/Subspecies** C57BL/6N

**Age** 4-6 weeks

**Gender** Male

**Morphology** Lymphoblastoid

**Cell type** T cells

**Growth properties** Adherent

References

**Citation** EL4 (ATCC CCL 221) Cytion 300653

**Biosafety level** 1

**NCBI\_TaxID** 10090

**CellSaurusAccession** CVCL\_0255

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Cell Line

**Antigen expression** H-2b, Thy-1.2

**Viruses** MLV +, *murine leukemia virus* (retrovirus)

**Karyotype** 2n = 39

Media

**Culture Medium** RPMI 1640, w: 2.0 mM *glutamine*, w: 2.0 g/L NaHCO3 (Cytion 820700a)

**Supplements** 10% FBS

**Subculturing** 10% FBS, 10% DMSO

**Fluid renewal** 2-3 times

**Freeze medium** 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in 37°C medium.
4. Seed cells into a 70% confluent well.
5. Incubate cells for 15-18 hours.
6. Wash cells with PBS.
7. Seed cells into a 10% confluent well.
8. Incubate cells for 24-48 hours.

