

Human Primary CD8+ Cytotoxic T-Cells

A primary cell isolate with application in cell-based screening and life science research

The CD8+ Cytotoxic T-cells were isolated from a human peripheral blood mononuclear cells (PBMCs) fraction of human whole blood, obtained with full ethical permission. The cell population was analysed by fluorescence-activated cell sorting (FACS). The CD8+ Cytotoxic T-cells were immediately frozen post isolation and cryopreserved under liquid nitrogen.

DONOR TISSUE FEATURES

- Male donor, Caucasian, age 65 years
- Whole Blood fraction

CELL CHARACTERISTICS

Batch number:	18-2211
Vial content:	2.5 x 10 ⁶ cells
Appearance:	Suspension of round cells
Seeding density:	80,000 cells/ml
Culture medium:	RPMI + Human serum (10%) (inclusion of antibiotics/antifungal agents in medium is at user discretion)
Recovery from frozen:	90%
Doubling time:	18-24 hours
Mycoplasma test:	Negative (by real-time PCR)
Virus tests:	Negative for HIV1, HIV2, HBV, HCV (by real-time PCR)
Other tests:	Negative for fungus, yeast, bacteria



Cell morphology. Cells in culture were photographed using a phase contrast microscope. (Magnification: x10)

FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population Positive*
CD8	Antigen Cell Surface Glycoprotein	84.3%

*Percentage of cells with fluorescence greater than the isotype control background

USES AND RESTRICTIONS

- Further expansion of the Cytotoxic CD8+ T-cells by relevant T-cell expansion kit at user discretion
- Store at -150°C. Once thawed do not re-freeze
- For research use ONLY — not suitable for *in vitro* diagnostic use or human or animal treatment
- Potential biohazard — handle with care

Leaders in Cell Culture