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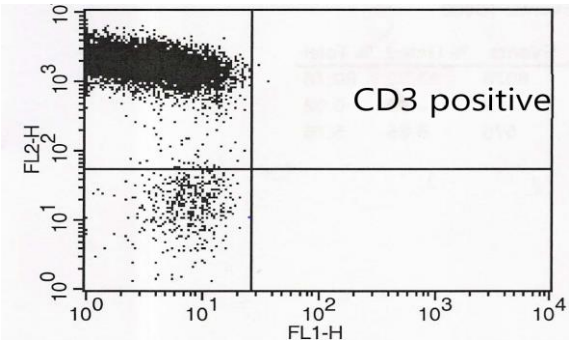
PRODUCT DATA SHEET

Human Peripheral Blood Pan-T cells



Product:	Cryopreserved Human Pan-T Cells
Cat no:	3H21-10
Source:	Human peripheral blood
Unit Size:	5 million per vial
Storage:	Liquid Nitrogen

Cell Specification

T-cell activation is an essential step in the immune response. The CD4 T cells play a central role in the recognition and elimination of virally infected and malignant cells. CD8 T cells may mediate antigen-specific immunosuppression by killing CD4 T helper cells or antigen presenting cells.

Cell Source

Human Pan-T cells are isolated from human peripheral blood mononuclear cells of single donor

Purity, CD3 positive >90%.

Cell Characterization

Human pan-T cells are characterized with antibodies against CD8, CD4 and CD3 cell surface makers.

Human Pan-T cells are tested negative for HIV-1, HBV, HCV and mycoplasma.

Cell Culture Condition

The cells are cryopreserved immediately after isolation and are guaranteed to further culture at the conditions provided in the Instruction for use.

Recommended Cell Culture Medium

T Cell Culture Medium with supplements (50 ml, Cat. no. 3H800-50-50).

Cell Culture Reagents

- Cell Thawing medium (10ml, Cat. no. 3H610-10-30)
- Cytokine, rhIL-2

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This product is for in vitro laboratory research use only.

Not approved for use in humans or animals

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INSTRUCTION FOR USE

Human Peripheral Blood Pan-T Cells

IMPORTANT: Cryopreserved cells are very delicate. Thaw the vial in a 37ºC water bath and return them to culture as quickly as possible with minimal handling.

Unpacking and Storage

1. Upon arrival, check the cryovial for signs of damage.

2. Cryovial should be transferred from dry ice immediately to a deep freezer (-135°C or liquid nitrogen storage) or to be thawed according to the protocol stated below.

Thawing of cryopreserved cells

1. Before thawing the cells, prepare a 37°C water bath and equilibrate cell thawing medium (Cat. No. 610-10-30) at room temperature and equilibrate T Cell Culture medium (3H800-50-50) in cell culture incubator (37°C, 5 % CO2)

2. Transfer cryovial from storage place in dry ice or in liquid nitrogen. Protect hands and eyes.

3. Wipe cryovial with 70 % ethanol. In order to release the pressure, briefly twist the cap a quarter turn, then retighten.

4. Quickly thaw the cryovial in a 37°C water bath until a small piece of ice is left. Clean and wipe the outside of cryovial with 70 % ethanol.

5. Within a laminar flow hood, transfer 1 ml cell thawing medium into cryovial and mix carefully.

6. Slowly add cell suspension drop wise into the conical tube containing 30 ml cell thawing medium and rinse the cryovial with 1 ml cell thawing medium.

7. Centrifuge at 250 g (approx. 1000 rpm), at room temperature for 10 minutes.

Set Up of Culture

8. Remove aseptically the supernatant and re-suspend the cells in equilibrated cell growth medium, 10 ml.

9. Using a hemacytometer and 0,02% trypan blue solution, determine the number of viable cells and cell concentration.

10. Culture cells in cell incubator at 37°C, 5% CO_2.

Caution: Handling human-derived products is potentially biohazardous. Although each cell type has tested negative for HIV, HBV and HCV DNA, diagnostic tests are not necessarily 100% accurate. Therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination [1].

[1]. Grizzle, W. E., and Polt, S. S. (1988) Guidelines to avoid personal contamination by infective agents in research laboratories that use human tissues. J Tissue Culture Methods. 11(4).

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