HuT 102

TIB-162.1™

Description

HuT 102 is a cutaneous T lymphocyte cell that was isolated from the peripheral blood of a 26-year-old, Black male with lymphoma. The cell has applications in immunology.
Organism: *Homo sapiens*, human
Cell Type: cutaneous T lymphocyte
Tissue: Peripheral blood
Age: 26 years
Gender: Male
Morphology: lymphoblast
Growth properties: Suspension, multicellular aggregates
Disease: Lymphoma

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to

understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

These cells release a type C retrovirus that has been associated with human T cell lymphomas and should be handled as a biohazard.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 37°C

Handling Procedures

Unpacking and storage instructions:

1. Check all containers for leakage or breakage.

2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Complete medium: The base medium for this cell line is RPMI-1640 Medium (ATCC 30-2001). To make the complete growth medium, add the following components to the base medium:

- Fetal Bovine Serum (ATCC 30-2020) to a final concentration of 10%
- 100 U/mL IL-2 (1 vial lL-2 lS (10 ug), premium grade (Miltenyi catalog # 130-097-744 rehydrated in 1 mL PBS/0.1% BSA)

Handling Procedure:

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

1. Thaw the vial by gentle agitation in a **37°C** water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents (gently without excessive pipetting) into a 25 cm^2 or a 75 cm^2 culture flask as recommended on the Certificate of Analysis and dilute with the recommended complete culture medium (see the specific lot information on the Certificate of Analysis for culture recommended dilution ratio). It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).
4. Incubate the culture at **37°C** in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

If it is desired that the cryoprotective agent be removed immediately, or that a more concentrated cell suspension be obtained, centrifuge the cell suspension at

approximately 150-400 x g for 8-12 minutes (280xg for 10 minutes). Discard the supernatant and resuspend the cells with fresh growth medium at the dilution ratio recommended on the specific lot Certificate of Analysis.

Subculturing procedure:

Replacement of culturing medium
Full fluid changes must be performed at least every 7 days or before the medium becomes too acidic as follows:

1. Aseptically transfer cells to a centrifuge tube.
2. Centrifuge cell suspension into a pellet.
3. Aspirate supernatant and gently resuspend the pellet in the desired volume. DO NOT OVER-PIPETTE THE CELL PELLET. SINGLE CELL SUSPENSION MUST BE AVOIOED. BREAK THE PELLET GENTLY USING A 10 ML PIPETTE.
4. Transfer cell suspension into new flask(s) with additional fresh growth media to bring the ell suspension up to the desired volume.

Addition of culture medium
Fluid additions may be performed between full fluid changes as needed.
Note: Media additions must be < 1:1.5 ratio by volume.

Example
Current volume 20 mL
Desired final volume = (20 mL x 1.5) = 30 mL
Media to add = (30mL-20 mL) = 10 mL
Note: Background debris is often present.

Reagents for cryopreservation: Complete growth medium supplemented with 5% (v/v) DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: HuT 102 (ATCC TIB-162.1)

References

References and other information relating to this material are available at www.atcc.org.

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