

CRL-11386[™]

Description

TALL-104 is a T lymphoblast cell line that was established from the peripheral blood of a two-year-old male child in relapse with T-ALL. Applications include immune system disorder, immunology, and immuno-oncology research.

Cell Type: T lymphoblast **Tissue:** Peripheral blood

Age: 2 years Gender: Male

Morphology: lymphoblast
Growth properties: Suspension

Disease: Acute lymphoblastic leukemia ALL

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Patent number:

5,272,082

Technical information: ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen



CRL-11386

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.

BSL₁

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.

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.

CRL-11386

Growth Conditions

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

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 (ATCC 30-2001). To make the complete growth medium, add the following components to 400 mL of the base medium:

- Fetal Bovine Serum (ATCC 30-2020) to a final concentration of 20%.
- $^{\circ}$ 1 vial IL-2 IS (10 μ g), premium grade (Miltenyi cat# 130-097744*). Contents of vial can be rehydrated with 1 mL of culture medium and then added directly to the bottle of formulated medium.

***Note:** The biological activity of cat# 130-097-744 is at least 5.0×10^6 units/mg but may be as high as 9.0×10^6 units/mg per Miltenyi. This may cause the final formulation of IL-2 to be greater than 100 units/mL

Note: Complete culture medium has a recommended shelf life of one month when being stored at 2-8°C. Vendor does not provide stability information, but suggested material should be good for up to a month after formulation.

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

CRL-11386

- operations from this point on should be carried out under strict aseptic conditions.
- 3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes.
- 4. Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio) and dispense into an appropriate size culture flask. 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 complete 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).
- 5. Incubate the culture at 37° C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product.

Subculturing procedure:

Cultures can be maintained by addition or replacement of fresh medium. Start cultures at least 8×10^5 cells/mL.

Note: IL-2 rapidly loses its potency in medium, it is important that fresh IL-2 be used. Successful growth of this cell line is very dependent upon the quality of IL-2 used in the growth medium. ATCC recommends using the highest quality IL-2 available.

Interval: Maintain between 4 X 10⁵ and 1 X 10⁶ cells/mL.

Medium Renewal: Add medium as cell density increases

Reagents for cryopreservation: RPMI-1640 + 20% Gibco Knockout SR (Thermofisher Scientific cat# 10828010) + 10% DMSO. Freeze at a cell density of at least 15 x 10^6 cells/mL. Cell culture tested DMSO is available as ATCC 4-X.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: TALL-104 (ATCC CRL-11386)

References

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

TALL-104 CRL-11386

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TALL-104CRL-11386

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CRL-11386

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