



NCI-H1184 [H1184]

CRL-5858™

Description

NCI-H1184 [H1184] are lymphoblasts isolated from the lungs of a 42-year-old, White male with stage L carcinoma. This product can be used for cancer research.

Organism: *Homo sapiens*, human

Tissue: Lung

Age: 42 years

Gender: Male

Growth properties: Suspension, floating aggregates of large cell clusters

Disease: Carcinoma; Small cell lung cancer; Stage L

Storage Conditions

Product format: Frozen

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 1

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.

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 complete medium for this cell line is ACL-4 medium supplemented with 10% FBS

The base medium for this cell line is DMEM: F12 (ATCC 30-2006). To make the complete growth medium, add the following components to the base medium:

- 0.02 mg/ml insulin
- 0.01 mg/ml transferrin
- 25 nM sodium selenite
- 50 nM Hydrocortisone
- 1 ng/ml Epidermal Growth Factor (do not filter)
- 0.01 mM ethanolamine
- 0.01 mM phosphorylethanolamine
- 100 pM triiodothyronine
- 0.5% (w/v) bovine serum albumin
- 10 mM HEPES
- 0.5 mM sodium pyruvate
- 2mM L-glutamine(for final conc. of 4.5 mM)
- 10% fetal bovine serum (FBS; ATCC 30-2020)

Handling Procedure:**Handling Procedure for Frozen Cells**

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.

SAFETY PRECAUTION: ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials 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 vessel exploding or blowing off its cap with dangerous force creating flying debris.

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. It is recommended that the cryoprotective agent be removed immediately. Centrifuge the cell suspension at approximately 125 xg for 5 to 10 minutes. Discard the supernatant and resuspend the cell pellet in an appropriate amount of fresh growth medium.

4. Transfer the vial contents to an appropriate size vessel. 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).

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 sheet.

Subculturing procedure: Cultures can be maintained by addition of fresh medium or replacement of medium. Alternatively the cells may be collected by centrifugation with subsequent resuspension in fresh medium. The cells are slow to grow and the clusters will get larger over time. Some clusters can lightly adhere to the flask. These cells cannot be counted accurately, if the cell clusters are dispersed into single cells, they will lose viability.

Add fresh medium every 2 to 3 days.

Reagents for cryopreservation: RPMI 1640 medium supplemented with 10% FBS and 10% (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: NCI-H1184 [H1184] (ATCC CRL-5858)

References

References and other information relating to this material are available at

www.atcc.org.

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Product Sheet

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