NCI-H345 [H345]

HTB-180™

Description

NCI-H345 [H345] is an epithelial-like cell that was isolated from the lung of a 40-year-old, White, male with lung Carcinoma. The cell line can be used in cancer and immunology research.

Organism: *Homo sapiens*, human
Tissue: Lung
Age: 64 days
Gender: Male
Morphology: epithelial
Growth properties: Mixed: multicellular aggregates in suspension and some adherent cells
Disease: Carcinoma

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 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
Atmosphere: 95% Air, 5% CO_2

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: HITES medium (serum free) is formulated at the ATCC as follows:

- DMEM: F-12 Medium (ATCC 30-2006)
- Insulin 0.005mg/ml (Gibco 12585-014)
- Transferrin 0.01 mg/ml (Sigma T5391 or equivalent)
- Sodium selenite 30 nM (Sigma S9133 or equivalent)
- Hydrocortisone 10 nM (Sigma H0135 or equivalent)
- beta-estradiol 10 nM (Sigma E2257 or equivalent)
- L-Glutamine Solution (ATCC 30-2214) 2 mM (in addition to that in the base medium)

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. 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. to an appropriate size vessel. 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.

Subculturing procedure:

Culture can be maintained by addition of medium or by replacement of medium. Alternatively, the cells may be collected by centrifugation and dispersed into fresh medium. Aggregates may be dispersed by trituration. The use of trypsin is not

recommended.
Medium Renewal: Add fresh medium every 3 to 4 days (depending on cell density)
Reagents for cryopreservation: Complete growth medium supplemented with 7.5% (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: NCI-H345 [H345] (ATCC HTB-180)

References

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

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