ATCC
Product Sheet
H1HeLa (ATCC® CRL-1958™)

Please read this FIRST

**Biosafety Level**

- **2**

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**Intended Use**

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

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**Complete Growth Medium**

The base medium for this cell line is ATCC-formulated Leibovitz's L-15 Medium, Catalog No. 30-2008. To make the complete growth medium, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.

(Warning: The L-15 medium formulation was devised for use in a free gas exchange with atmospheric air. A CO2 and air mixture is detrimental to cells when using this medium for cultivation)

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**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: H1HeLa (ATCC® CRL-1958™)

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**Description**

**Organism:** Homo sapiens, human

**Tissue:** cervix

**Disease:** adenocarcinoma

**Age:** 31 years

**Gender:** female

**Morphology:** epithelial

**Hela Markers:** Y

**Growth Properties:** adherent

**Virus Susceptibility:**

**Viral Testing:** ATCC confirmed this cell line tested positive for the presence of human papillomavirus (HPV) viral DNA sequences via PCR.

**Isoenzymes:**

- G6PD, A

**DNA Profile:**

- Amelogenin: X
- CSF1PO: 9,10
- D13S317: 12,13.3
- D16S539: 9,10
- D5S818: 11,12
- D7S820: 8,12
- TH01: 7
- TPOX: 8,12
- vWA: 16,18

Refer to the Certificate of Analysis for batch-specific test results.

**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.

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**Unpacking & 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.

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**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.

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 to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes. Discard supernatant.
4. Resuspend the cell pellet with the recommended complete medium and dispense into a culture flask.
5. Incubate the culture at 37°C in a suitable incubator in a free gas exchange with atmospheric air.

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**Handling Procedure for Flask Cultures**

The flask was seeded with cells (see specific batch information), grown, and completely filled with medium at ATCC to prevent loss of cells during shipping.

1. Upon receipt visually examine the culture for macroscopic evidence of any microbial contamination. Using
H1HeLa (ATCC® CRL-1958™)

Subculturing Procedure

1. Remove all but 5 to 10 ml of the shipping medium. The shipping medium can be saved for reuse. Incubate the cells at 37°C in air atmosphere until they are ready to be subcultured.

2. If the cells are still attached, aseptically remove all but 5 to 10 ml of the shipping medium. The shipping medium and save. Resuspend the pelleted cells in 10 ml of this medium and add to 25 cm² flask. Incubate at 37°C in air atmosphere until cells are ready to be subcultured.

3. If the cells are not attached, aseptically remove the entire contents of the flask and centrifuge at 125 xg for 5 to 10 minutes. Remove shipping medium and save. Resuspend and dispense into new flasks.

Complete Growth Medium

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Citation of Strain

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References

References and other information relating to this product are available online at www.atcc.org. Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.
is made to insure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from
the misidentification or misrepresentation of such materials.
Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this
product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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