# Hela Cell Line

Catalog No.: AMS.CL-0101

## Origin and General Characteristics

| | |
|---|---|
| **Cell Name** | Hela Cell Line |
| **Age** | 31 years adult |
| **Tissue** | Cervix |
| **Morphology** | Epithelial |
| **Growth Properties** | Adherent |
| **Descriptions** | The cells are positive for keratin by immunoperoxidase staining.HeLa cells have been reported to contain human papilloma virus 18(HPV-18) sequences.P53 expression was reported to be low, and normal levels of pRB(retinoblastoma suppressor) were found. |
| **Biosafety Level** | 2 |

## Culture Conditions and Handling

| | |
|---|---|
| **Complete Growth Medium** | MEM +10% FBS +1% P/S |
| **Subculturing** | Remove and discard culture medium. Briefly rinse the cell layer with DPBS solution to remove all traces of serum that contains trypsin inhibitor. Add 1.0 to 2.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 3 minutes). Cells that are difficult to detach may be placed at 37°C to facilitate dispersal. Add 4.0 to 6.0 mL of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels. |
| **Subcultivation Ratio** | 1:2-1:4 |
| **Medium Renewal** | Every 2 to 3 days |
| **Cryopreservation** | Freeze medium: 60% Basal medium+30% FBS+10% DMSO<br>Storage temperature: Liquid nitrogen vapor phase |
| **Culture Conditions** | Atmosphere: Air, 95%; CO2, 5%<br>Temperature: 37℃ |

## Special Features of the Cell Line

| | |
|---|---|
| **Gene Expression** | Lysophosphatidylcholine(Lyso-Pc) Induces Ap-1 Activity And C-Jun N-Terminal Kinase Activity(Jnk1) By A Protein Kinase C-Independent Pathway. The Cells Are Positive For Keratin By Immunoperoxidase Staining. |

## Recommendations for handling of cryopreserved cells

1. The cell is packaged by dry ice. When receiving the cell, please make sure that the vial is still frozen. If there is cell thawing in the tube, please take photo before experiment or storage.
2. If immediate culturing is not intended, the cryovial(s) must be stored in liquid nitrogen (-196°C) or at least at -80°C after arrival.

   If immediate culturing is intended, please follow these instructions:
3. Quickly thaw by rapid agitation in a 37℃ water bath within 45-90 seconds. The water bath should have clean

**For Research Use Only**



UK & Rest of the World
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

North America
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

Germany
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

Switzerland
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85

water containing an antimicrobial agent. As soon as the sample has thawed, remove the cryovial from the water bath.
Note: A small ice clump should still remain and the vial should still be cold.
**From now on, all operations should be carried out under aseptic conditions.**

4. Transfer the cryovial to a sterile flow cabinet and wipe with 70% alcohol. Carefully open the vial and transfer the cell suspension into a 15 ml centrifuge tube containing 9 ml of cell complete medium (room temperature or 37°C).
5. In order to reduce cell damage, add 1ml of cell complete medium into cryovial, slightly pipette, then use a pipettor to add 1 ml of suspension into the centrifuge tube. Resuspend the cells carefully. Centrifuge at 300×g for 3 min and discard the supernatant. The centrifugation step may be omitted, but in this case the remains of the freeze medium have to be removed 24 hours later.
6. Resuspend the cells carefully in 10ml fresh cell culture medium and transfer them into one or two T25 cell culture flasks.



AMSBIO | www.amsbio.com | info@amsbio.com

**UK & Rest of the World**
184 Park Drive, Milton Park
Abingdon OX14 4SE, UK
T: +44 (0)1235 828 200
F: +44 (0) 1235 820 482

**North America**
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

**Germany**
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

**Switzerland**
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
T: +41(0) 91 604 55 22
F: +41(0) 91 605 17 85