

HEC-1-A | 305077

HEC-1-A

Description HEC-1-A is a human endometrial epithelial cell line. It is a highly proliferative, immortalized cell line derived from a 71-year-old woman with endometrial cancer. The cells are characterized by their ability to form multicellular spheroids in suspension culture. HEC-1-A cells are widely used in research related to endometrial cancer, including studies on cell growth, drug response, and gene expression. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml insulin-like growth factor-1 (IGF-1). HEC-1-A cells are karyotypically normal and do not contain any transgenes or viral components. The cell line is available from Cytion as a suspension culture.

Organism Human

Tissue Endometrium, Endometrial cancer

Disease Endometrial cancer

Synonyms Hec-1-A, HEC-1A, HEC1-A, HEC1A, Hec1A

HEC-1-A

Age 71 years

Gender Female

Ethnicity Caucasian

Morphology Epithelial

Growth properties Suspension culture

HEC-1-A

Citation HEC-1-A (ATCC CCL-237) | Cytion 305077

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0293

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HEC-1-A - HEC-1-A

Receptors expressed PAF

Protein expression C-Fos

Antigen expression B, Rh

Tumorigenic

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Culture Medium McCoys 5a, w: 3.0 g/L, w: 2.0 mM, w: 2.2 g/L NaHCO3 (Cytion 820200a)

Supplements 10% FBS

Dissociation Reagent

Subculturing T25, 3-5' PBS, 3

Fluid renewal 2 3

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 10-15 mL of medium. Incubate at 37°C with 5% CO₂.
3. Monitor cell growth and confluency. Once cells reach 70-80% confluency, they can be passaged.
4. Harvest cells by trypsinization. Add 1 mL of trypsin-EDTA solution to the flask and incubate for 2-3 minutes at 37°C.
5. Add 10 mL of pre-warmed medium to stop the trypsinization. Pipette the cells into a 15 mL centrifuge tube.
6. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and wash the cells with pre-warmed medium.
7. Resuspend the cells in 10 mL of pre-warmed medium. Seed the cells into a new flask.
8. Repeat the process for subsequent passages.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating Cell culture flasks are pre-coated with poly-L-lysine.

Freezing Procedure Harvest cells by trypsinization and resuspend in freezing medium. Store at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for up to 196 months.

Genotype / HLA

Sterility Cells are tested for mycoplasma contamination. PCR testing is available upon request.