

HEC-1-B | 305095

HEC-1-B

Description	HEC-1-B is a human endometrial epithelial cell line. It is derived from a 71-year-old woman with endometrial cancer. The cells are characterized by their ability to form organoids in vitro and their sensitivity to various chemotherapeutic agents. HEC-1-B cells are commonly used in research related to endometrial cancer, including studies on drug resistance, tumor progression, and the role of various signaling pathways.
Organism	Human
Tissue	Endometrium, Endometrial cancer
Disease	Endometrial cancer
Synonyms	Hec-1-B, HEC-1B, Hec-1b, EC1-B, HEC1B, Hec1B

HEC-1-B

Age	71 years
Gender	Female
Ethnicity	Caucasian
Morphology	Epithelial
Growth properties	Adherent

HEC-1-B

Citation	HEC-1-B (ATCC CCL-107) Cytion 305095
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0294

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Antigen expression B, Rh

Tumorigenic

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (Cytion 820100a)

Supplements 10% FBS 1% NEAA

Dissociation Reagent

Subculturing Cells are grown in 25 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. When cells reach 70-80% confluency, they are trypsinized and seeded into new flasks.

Fluid renewal 2-3 times per week

Freeze medium Cells are frozen in EMEM medium supplemented with 10% FBS and 10% DMSO. The medium is stored at -80°C.

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in EMEM medium supplemented with 10% FBS and 1% NEAA.
4. Seed cells into a 25 cm² flask.
5. Incubate cells at 37°C in 5% CO₂.
6. Monitor cell growth and fluid renewal 2-3 times per week.
7. When cells reach 70-80% confluency, trypsinize and seed into new flasks.
8. Store cells in EMEM medium supplemented with 10% FBS and 10% DMSO at -80°C.

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Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell binding

Freezing Procedure Cells are seeded into 24-well plates and grown to confluence. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 ml vials and frozen at -78°C.

Shipping Conditions Cells are shipped in dry ice at -78°C.

Storage Conditions Cells are stored at -150 to -196 °C in liquid nitrogen.

Cells are grown in DMEM supplemented with 10% FBS.

Sterility Cells are grown in DMEM supplemented with 10% FBS. The medium is changed every 2-3 days. Cells are harvested by trypsinization and centrifugation. The pellet is resuspended in PBS and then counted. The cells are then seeded into 24-well plates and grown to confluence. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 ml vials and frozen at -78°C.