

Product sheet

IEC-18 | 305302

Key features

**Description** IEC-18 is a mouse cell line derived from the small intestine of a CD-1 mouse. It is a highly proliferative, epithelial cell line that expresses the fibrosis transmembrane conductance regulator (FTCRL) gene. IEC-18 cells are used to study the function of the Cl<sup>-</sup> channel and the cAMP signaling pathway. IEC-18 cells are also used to study the effects of various drugs and toxins on the small intestine. IEC-18 cells are grown in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml dexamethasone. IEC-18 cells are also used to study the effects of various drugs and toxins on the small intestine. IEC-18 cells are grown in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 100 ng/ml dexamethasone.

**Organism** Mouse

**Tissue** Small intestine, Intestine

**Disease** None

**Synonyms** IEC 18, IEC18, Intestine Epithelial Cell 18

Characteristics

**Breed/Subspecies** CD-1 (CD(SD))

**Age** 18-24 weeks

**Gender** Male

**Morphology** Epithelial

**Cell type** Epithelial

**Growth properties** Adherent

References

**Citation** IEC-18 (ATCC CRL-2143) | Cytion 305302

**Biosafety level** 1

**NCBI\_TaxID** 10116



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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not shake the vial. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Discard the supernatant and resuspend the cells in 10 ml of fresh medium. Seed the cells into a T25 flask.
2. Incubate the cells at 37°C in 5% CO<sub>2</sub>. The cells should reach 70% confluency within 24 hours.
3. Once the cells have reached 70% confluency, they can be used for experiments or passaged into a larger flask.
4. For passaging, trypsinize the cells and seed them into a T75 flask. The cells should reach 70% confluency within 24 hours.
5. For long-term storage, trypsinize the cells and resuspend them in 1 ml of freezing medium. Seed the cells into a 15 ml falcon tube and freeze at -80°C.
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7. For long-term storage, trypsinize the cells and resuspend them in 1 ml of freezing medium. Seed the cells into a 15 ml falcon tube and freeze at -80°C.
8. For long-term storage, trypsinize the cells and resuspend them in 1 ml of freezing medium. Seed the cells into a 15 ml falcon tube and freeze at -80°C.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Thaw the vial rapidly in a water bath at 37°C. Do not shake the vial. Remove the vial from the water bath and centrifuge at 300 x g for 3 minutes. Discard the supernatant and resuspend the cells in 10 ml of fresh medium. Seed the cells into a T25 flask.

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

**Storage Conditions** Store at -150°C for 196 days. Store at -80°C for 196 days.

HLA

**Sterility** The cells are free of mycoplasmas and other contaminants. PCR confirmed.