

UMR-106 | 305197

General information

Description	UMR-106 is a cell line derived from a human embryo, established in 1962. It is a continuous cell line that has been used for various research purposes, including studies on cell growth, differentiation, and gene expression. The cell line is maintained in a serum-free medium and is characterized by its high growth rate and ability to form colonies.
Organism	Human
Tissue	Embryo
Disease	Not applicable
Synonyms	UMR 106, UMR106

Characteristics

Breed/Subspecies	Human
Age	Not applicable
Morphology	Epithelial
Growth properties	High growth rate

Identification and safety

Citation	UMR-106 (Cytion 305197)
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_3617

Additional information

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Receptors expressed

Human PTH (PTH), 1-25(OH)2D3 (human recombinant PTH)

Cell line

Culture Medium

DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM sodium pyruvate (Cytion 820300a)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Subculturing

Cells are grown in 25 cm² flasks (Corning Costar) in DMEM supplemented with 10% FBS. When cells reach confluence, they are trypsinized and seeded into 96-well plates (Corning Costar) in DMEM supplemented with 10% FBS. Cells are grown in 96-well plates for 3 days before use.

Fluid renewal

2 to 3 times per week

Freeze medium

DMEM supplemented with 10% FBS, 10% DMSO (Cytion FBS) + 10% DMSO (Cytion DMSO) (Cytion FBS + 10% DMSO)

Thawing and Culturing Cells

1. Cells are thawed in a 37°C water bath and seeded into 25 cm² flasks (Corning Costar) in DMEM supplemented with 10% FBS.
2. Cells are grown in 25 cm² flasks (Corning Costar) in DMEM supplemented with 10% FBS. When cells reach confluence, they are trypsinized and seeded into 96-well plates (Corning Costar) in DMEM supplemented with 10% FBS.
3. Cells are grown in 96-well plates (Corning Costar) in DMEM supplemented with 10% FBS. When cells reach confluence, they are trypsinized and seeded into 25 cm² flasks (Corning Costar) in DMEM supplemented with 10% FBS.
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Incubation Atmosphere

37°C, 5% CO₂, humidified

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Flask Coating

Fluoropolymer

Freezing Procedure

For freezing, the cells should be seeded into the flask and allowed to reach confluence. The medium should be removed and the cells washed with PBS. The cells should then be trypsinized and resuspended in freezing medium. The suspension should be aliquoted into cryovials and stored at -78°C.

Shipping Conditions

The cells should be shipped on dry ice at -78°C.

Storage Conditions

The cells should be stored at -150 to -196 °C in liquid nitrogen.

Cell Line Characteristics

Sterility

The cells are certified to be free of mycoplasmas and PCR confirmed to be free of contamination.

The cells are also certified to be free of endotoxins and are suitable for use in cell-based assays.