

HepG2.2.15 | 305227

General information

Description	HepG2.2.15 is a human liver carcinoma cell line derived from HepG2, which is a highly tumorigenic cell line. It is characterized by its ability to produce and secrete large amounts of albumin and lipoproteins. It is also known for its high transfection efficiency and is commonly used in gene expression studies and drug screening.
Organism	Human
Tissue	Liver
Disease	Hepatocellular carcinoma
Synonyms	HEP-G2/2.2.15, Hep-G2/2215, HepG2/2215, HepG2-2.2.15, HepG2 2.2.15, HepG/2.2.15, HepG2(2.2.15), 2.2.15

Cell characteristics

Age	15 years
Gender	Male
Ethnicity	Chinese
Growth properties	Adherent

Cell culture conditions

Citation	HepG2.2.15 (ATCC CCL-107) Cytion 305227
Biosafety level	2
NCBI_TaxID	9606
CellSaurusAccession	CVCL_L855

Cell culture media

References

Product sheet

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Culture Medium Ham's F12K Medium, w: 2.0 mM L-Glutamine, w: 2.0 mM Sodium pyruvate, w: 2.5 g/L NaHCO₃ (Cytion 820608a)

Supplements 10% FBS

Dissociation Reagent

Subculturing Cells are grown in 75 cm² flasks in Ham's F12K Medium supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.

Seeding density 5 x 10⁴ cells/cm²

Freeze medium Cells are frozen in Ham's F12K Medium supplemented with 10% FBS and 10% DMSO. The cells are seeded into new flasks after thawing.

Thawing and Culturing Cells

1. Cells are thawed in a 37°C water bath and seeded into a 75 cm² flask.
2. The medium is changed after 24 hours.
3. Cells are grown in Ham's F12K Medium supplemented with 10% FBS.
4. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks.
5. The medium is changed every 3-5 days.
6. Cells are frozen in Ham's F12K Medium supplemented with 10% FBS and 10% DMSO.
7. The cells are seeded into new flasks after thawing.
8. The medium is changed every 3-5 days.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

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**Freezing
Procedure**

1. Harvest cells and resuspend in 10 ml freezing medium (DMEM + 10% FBS + 10% DMSO). 2. Aliquot into 1 ml cryovials. 3. Freeze at -80°C.

**Shipping
Conditions**

1. Ship in dry ice. 2. Store at -80°C.

**Storage
Conditions**

1. Store at -150 to -196 °C. 2. Do not thaw more than once.

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Sterility

1. The cells are tested for sterility by PCR. 2. The results are provided in the Certificate of Analysis. 3. The cells are free of mycoplasma contamination.