

MHCC-97H | 305442

General information

Description	MHCC-97H is a human gastric cancer cell line (HCC) derived from a 39-year-old male patient. The cell line is characterized by its high tumorigenicity and is used for various research purposes, including drug screening and mechanistic studies. MHCC-97H cells are highly proliferative and form large, dense colonies. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). MHCC-97H cells are highly tumorigenic and form large, dense colonies. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). MHCC-97H cells are highly tumorigenic and form large, dense colonies. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS).
Organism	Human
Tissue	Gastric cancer
Disease	Gastric cancer
Synonyms	MHCC 97-H, MHCC97-H, MHCC97H

Cell characteristics

Age	39 years
Gender	Male
Ethnicity	Chinese
Growth properties	Highly tumorigenic

Cell line identification

Citation	MHCC-97H (Cytion 305442)
Biosafety level	2
NCBI_TaxID	9606
CellosaurusAccession	CVCL_4972

Cell line authentication

Tumorigenic	Highly tumorigenic
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HEK293T MHCC-97H | 305442

Viruses

HBV: Hepatitis B virus (HBV)

Mutational profile

BRD7, p.Glu277Glyfs*18 (c.830_831delAG); KEAP1, p.Pro445Glnfs*13 (c.1334delC); TP53, p.Glu51Ter (c.151G>T)

Cell line

Culture Medium

DMEM, w: 4.5 g/L Glucose, w: 4 mM L-Glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM Penicillin (Cytion 820300a)

Supplements

10% FBS

Dissociation Reagent

Trypsin

Subculturing

Cells are grown in DMEM supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM supplemented with 10% FBS. Cells are seeded into new flasks at a density of 1.5 x 10⁴ cells per flask.

Seeding density

1.5 x 10⁴ cells per flask

Freeze medium

DMEM supplemented with 10% FBS and 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C.
2. Resuspend cells in DMEM supplemented with 10% FBS.
3. Seed cells into a flask at a density of 1.5 x 10⁴ cells per flask.
4. Allow cells to attach and grow for 24-48 hours.
5. Perform a cell count to determine the number of cells.
6. Seed cells into a flask at a density of 1.5 x 10⁴ cells per flask.
7. Allow cells to attach and grow for 24-48 hours.
8. Perform a cell count to determine the number of cells.

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Incubation Atmosphere 37°C, 5%_{CO2}, **humidified**

Flask Coating **yes**

Shipping Conditions **cells are shipped in a dry ice container at -78°C**

Storage Conditions **cells can be stored in liquid nitrogen for up to 150 days**

cells are shipped in a dry ice container

Sterility **cells are shipped in a dry ice container and are PCR negative**