

HEP-2 | 305017

HEP-2

Description	HEP-2, a human epithelial cell line derived from a liver carcinoma, is a highly proliferative cell line that is widely used in research. It is characterized by its ability to form colonies in soft agar and its sensitivity to various growth factors. HEP-2 cells are typically grown in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. They are known for their high transfection efficiency and are commonly used in gene expression studies and drug screening. HEP-2 cells are also used in the study of liver cancer and its progression. They are a good model for studying the effects of various treatments on liver cancer cells.
Organism	Human
Tissue	Liver
Disease	Hepatocellular carcinoma
Synonyms	HEP-2

Characteristics

Age	~ 50 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Highly proliferative

Cell Culture Conditions

Citation	Wang et al. (2015) Cytion 305017
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0297

HEP-2 Cell Line - Characteristics

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Tumorigenic XX

XXXXXX

Culture Medium DMEM, w: 4.5 g/L XXXXXX, w: 4 mM L-XXXXXXX, w: 3.7 g/L NaHCO₃, w: 1.0 mM XXXX XXXXXX (XXXX XXXXXX Cytion 820300a)

Supplements XXXX XXXXX 10% FBS

Dissociation Reagent XXXXXX

Doubling time 20 - 30 XXXX

Subculturing XXX XX XXXXXX XXXX XXXXXX XXXXXX XXXX XXXX -PBS XXX XXXX XXXXXX. XXXX XXXXXX T25, XXXXX -3-5 X' -PBS, XXXXX XXXX 3 XXXX. XXXX XX XXXXXX XXXXXX, XXXX XX XXXXXX XXXXXX XXXX XXXX XXXX XXXXXX XXXX XXXX XXXXXX XXXX XXXX.

Freeze medium XXXXXX XXXXXX XXXXXX, XXX XXXXXX XXXXXX XXXX XXX (XXXX FBS) + 10% DMSO XXX XXXXXX XXXXXX XXXX XXXX XXXXXX, XX C

Thawing and Culturing Cells

1. XXX XXXXXX XXXX XXXX XXXXXX XXX XXXXXX, XXX XXXXXX XXXXXX XXXX XXX XXXX XX XXXXXX XXXXXX XXXXXX XXXXXX.
2. XX XXXX XXXXXX, XXXX XX XXXXXX XXXXXX XXX XXXXXX XXXXXX -150°C XXX XXXXXX XX XXXXX XXXXX XXXXX, XX XXXX XXXXXX.
3. XXXXX XXXXX XXXXXX, XXXXX XX XXXXXX XXXXXX XX XXX XXXXXX XXXXX XXX XXXXXX XXXX 37 XXXXX XXXXXX XX XXX XXXX.
4. XXX XX XX XXXXXX XXXXX XXXXXX XXXXXX XXXXX, XXXX XX XXXXXX XXXXXX XXXXXX 70% XXXX XXXXXX.
5. XXX XXXXXX XX XXXXXX XXXXXX XXXXX XX XXXXX XXXXX XXXXXX XXXXXX XXXX 15 X' XX XXXXX 8 X' XX XXX XXXXX XXXX XXXX.
6. XXXXX XX XXXXXX XXXXXX XXXX -300 x g XXXX 3 XXXX XXX XXXXXX XX XXXXX, XXXXX XXXXXX XX XXXXX XXXXXX XXXXX XX XXXX.
7. XXXX XXXXXX XX XXXX XXXXX -10 X' XX XXX XXXXX XXXX XXXX XXXX XXXXXX, XXXX XX XXXXXX XXX XXX XXXXXX XXXXX T2.
8. XXXXXX XX XXXXXX XXXX -XXXX XXXXXX XXXXX XXXXX XXXXXX XX XX XXXXX, XXX XXXXXX XXXXXX XXXXX XXXXXX.

Incubation Atmosphere 37°C, 5% CO₂, XXXXXX XXXX

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Flask Coating

XX XXX

Freezing
Procedure

XXXXXXXX XXXX XXXXXXX XXXX XXX XXXXXXX XXXXXXX XXXXXXX XX XXXX XXXXX XX XXXX XXXXX XX XXXXX XX XXXXXXX XXX -78°C

Shipping
Conditions

XXXXXXXX XXXX XXXXXXX XXXXXXX XXXX XXX XXXXXXX XXXXXXX XXXXXXX XX XXXX XXXXX XX XXXX XXXXX XX XXXXX XX XXXXXXX XXX -78°C

Storage
Conditions

XXXXXXXX XXXXX XXXX, XX XXXXX XX XXXXXXX XXXXX XXXXX XXXX XX XXX XXXXXXX XXX -150 °C 196 XXXXX XXXXXXX. XXXXX XXXXX

XXXXXXXX XXXXXXX XXXXXXX XXXXXXX

Sterility

XXXXXXXX XXXXXXX XXXX XXXXXXX XXXXXXX XXXXXXX PCR XXXXXXX XXXXX XXXXXXX XXXXXXX XXXXXXX.

XX XXXXXXX XXXX XXXXX XXXXXXX, XXXXXXX XX XXXX, XXXXXXX XXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX.