



Leibniz Institute
DSMZ-German Collection
of Microorganisms
and Cell Cultures GmbH



HEP-G2

ACC 180

Cell line:
HEP-G2

DSMZ no.:
ACC 180

Species:
human (*Homo sapiens*)

Cell type:
hepatocellular carcinoma

Origin:
established from the tumor tissue of a 15-year-old Argentine boy with hepatocellular carcinoma in 1975; cell line was patented in 1980; cells were described in the literature to not harbor a hepatitis B virus genome; cells reportedly produce a variety of proteins: alpha-fetoprotein, albumin, alpha2-macroglobulin, alpha1-antitrypsin, transferrin, alpha1-antichymotrypsin, haptoglobin, ceruloplasmin, plasminogen, complement (C3, C4), C3 activator, fibrinogen, alpha1-acid glycoprotein, alpha2-HS glycoprotein, β -lipoprotein, retinol binding protein

Reference(s):
[14673](#), [14347](#)

Biosafety level:

1

Permissions
and
restrictions:

A

DSMZ Cell Culture Data:

Morphology:

adherent, epithelial-like cells growing as monolayers and in small aggregates; [image](#) ; [image](#)

Medium:

80-90% RPMI 1640 + 10-20% h.i. FBS

Subculture:

seed out at ca. $2-3 \times 10^6$ cells/80 cm²; split confluent culture 1:2 to 1:4 every 3-6 days using trypsin/EDTA; after thawing, culture initially with 20% FBS

Incubation:

at 37 °C with 5% CO₂

Doubling time:

ca. 50-60 hours

Harvest:

cell harvest of about 10×10^6 cells/80 cm²,

Storage:

frozen with 70% medium, 20% FBS, 10% DMSO

DSMZ Scientific Data:

Mycoplasma:

negative in DAPI, microbiological culture, RNA hybridization, PCR assays

Immunology:

To inquire about expression of EpCAM and intermediate filaments, contact hilmar.quentmeier@dsmz.de.

Fingerprint:

multiplex PCR of minisatellite markers revealed a unique DNA profile

Species:

originally confirmed as human with IEF of AST, MDH and recently by STR fingerprinting

Cytogenetics:

human hyperdiploid karyotype - 52(47-54)<2n>XY, +2, +14, +17, +20, +2mar, t(1;21) (p22.2;p11-12), i(17q)/der(17)t(17;17) (p11;q11)

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV-1 -, HIV-2 -, HTLV-I/II -, MLV -, SMRV -

Supplied as:

Delivery form	Prices
Frozen culture	400,- €
Growing culture (please inquire for exact delivery time)	800,- €
DNA isolated from cell line (25 µg)	500,- €
DNA isolated from cell line (5 µg)	120,- €

[see price list](#)

[Print data sheet](#)

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