



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



HT-29

ACC 299

Cell line:
HT-29

DSMZ no.:
ACC 299

Species:
human (*Homo sapiens*)

Cell type:
colon adenocarcinoma

Origin:
established from the primary tumor of a 44-year-old
Caucasian woman with colon adenocarcinoma in 1964;
described in the literature to be heterotransplantable
forming well-differentiated grade I tumors

Reference(s):
[15135](#)

Biosafety level:
1

Permissions
and

restrictions:

[A](#)

DSMZ Cell Culture Data:

Morphology:

adherent, epitheloid cells growing as monolayers and in large colonies; [image](#); [image](#)

Medium:

90% McCoy's 5A + 10% h.i. FBS

Subculture:

seed out at about $2-3 \times 10^6$ cells into a 80 cm² flask; split confluent culture 1:3 to 1:6 every 3-6 days using trypsin/EDTA

Incubation:

at 37 °C with 5% CO₂

Doubling time:

about 40-60 hours

Harvest:

cell harvest of about 25×10^6 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:

confirmed originally as human with IEF of AST, LDH

Cytogenetics:

human hypertriploid karyotype with 17.5% polyploidy - 71(63-74)<3n>XX, -X, +1, +2, +7, -8, -9, +11, -13, -13, -14, +15, -18, +19, -21, -22, +4-6mar, del(3)(p24), del(4)(q22)x1-2, add(6)(q25), add(7)(p15), i(13q), add(19)(q13) - sideline with i(17q), t(17;19)(p10;q10) - resembles published karyotype and to that of CX-1 which is a subclone - carries very large isochromosomal ABR marker

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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