



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



CHO-K1

ACC 110

Cell line:
CHO-K1

DSMZ no.:
ACC 110

Species:
Chinese hamster (*Cricetulus griseus*)

Cell type:
ovary cells

Origin:
subclone from parental CHO cell line that was initiated from
an ovary biopsy of an adult Chinese hamster in 1957

Reference(s):
[14649](#), [14860](#), [14592](#)

Biosafety level:
1

Permissions
and
restrictions:
[A](#)

DSMZ Cell Culture Data:

Morphology:
adherent, fibroblastoid cells, may be induced to undergo
additional differentiation; [image](#); [image](#); [image](#); [image](#);
[image](#)

Medium:
90% Ham's F12 + 10% h.i. FBS

Subculture:
seed out about 10^5 - 10^6 cells in an 80 cm² flask; split
confluent cultures 1:3 to 1:10 using trypsin/EDTA (once or
twice a week)

Incubation:
at 37 °C with 5% CO₂

Doubling time:
ca. 24 hours

Harvest:
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

Fingerprint:

same Hinf I-(gtg)₅ DNA profile as CHO-DHFR

Species:

originally confirmed as Chinese hamster with IEF and later as *Cricetulus barabensis* (Chinese striped hamster) origin by COI DNA barcoding

Cytogenetics:

near diploid karyotype with 12% polyploidy - 22(20-23) - exhibits distinctive CHO karyology

Viruses:

ELISA: reverse transcriptase negative; PCR: 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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