



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



COS-7

ACC 60

Cell line:
COS-7

DSMZ no.:
ACC 60

Species:
monkey - African green monkey (*Chlorocebus aethiops*
(*Cercopithecus aethiops*))

Cell type:
kidney

Origin:
derived from CV-1, a simian cell line (cercopithecus
aethiops), by transformation with an origin-defective
mutant of SV-40; cells were described in the literature to
support the growth of SV-40 viruses; classified as risk
category 1 according to the German Central Commission for
Biological Safety (ZKBS)

Reference(s):
[14568](#)

Biosafety level:

1, GMO-S1

Risk

assessment:

The cell line was established by transfection with a mutated simian virus 40 (SV40) exhibiting a 6 bp deletion in the replication origin. This renders the virus incompetent for replication and the cell line can thus be handled under biosafety level 1.

Permissions

and

restrictions:

[A](#), [D](#), [E](#)

DSMZ Cell Culture Data:

Morphology:

fibroblast-like cells growing as monolayers ; [image](#); [image](#)

Medium:

90% Dulbecco's MEM + 10% h.i. FBS

Subculture:

split confluent culture 1:3 to 1:5 every 2-3 days using trypsin/EDTA; seed out at ca. 1×10^6 cells/80 cm²

Incubation:

at 37 °C with 5% CO₂

Doubling time:

ca. 35-48 hours

Harvest:

about 2-3 x 10⁶ cells/80 cm²; saturation density at about 5 x 10⁶ 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:

unique Hinf I-(gtg)₅ DNA profile (identical to COS-1, DSM ACC 63)

Species:

Chlorocebus aethiops (*Cercopithecus aethiops*) origin confirmed by COI DNA barcoding

Cytogenetics:

simian hypodiploid karyotype with 25% polyploidy - 57(53-58)<2n>

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HIV-1 -, HIV-2 -, HTLV-I/II -, 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,- €

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