



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



C2C12

ACC 565

Cell line:
C2C12

DSMZ no.:
ACC 565

Species:
murine (mouse) (*Mus musculus*)

Cell type:
myoblasts

Origin:
subclone of a mouse myoblast cell line established from mouse strain C3H; C2C12 cells are described in the literature to differentiate rapidly forming myotubes when incubated with horse serum; reportedly treatment with bone morphogenic protein 2 induces differentiation into the osteoblast lineage

Reference(s):
[14393](#), [14651](#)

Biosafety level:
1

Permissions
and
restrictions:
[A](#)

DSMZ Cell Culture Data:

Morphology:
polymorphic cells growing adherently in monolayers; [image](#);
[image](#); [image](#)

Medium:
90% RPMI 1640 + 10% h.i. FBS

Subculture:
seed out $1-5 \times 10^5$ cells in 80 cm^2 ; split semi-confluent
culture 1:10 to 1:50 every 2-4 days using trypsin/EDTA (do
not allow cultures to become confluent)

Incubation:
at $37 \text{ }^\circ\text{C}$ with 5% CO_2

Doubling time:
ca. 20 hours

Harvest:
cell harvest of ca. $10-15 \times 10^6$ cells/ 175 cm^2

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

DSMZ Scientific Data:

Mycoplasma:
negative in microbiological culture, PCR assays

Species:
confirmed as mouse by PCR species and recently as *mus
musculus* by COI DNA Barcoding

Cytogenetics:
murine flat moded near-tetraploid karyotype

Viruses:
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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