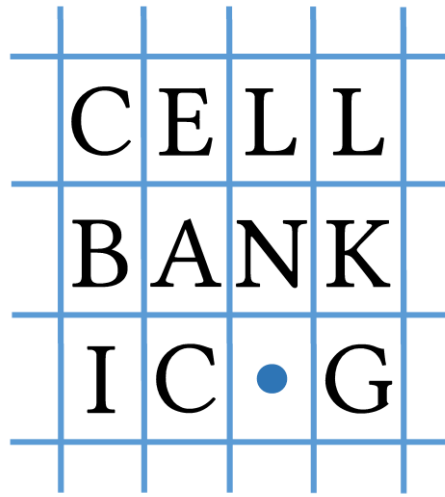




Collective Center of ICG SB RAS "Collection of Pluripotent Human and Mammalian Cell cultures for Biological and Biomedical Research"

The collection contains embryonic stem and induced pluripotent stem cells of humans, mice and other laboratory animals. There are also immortalized cell lines and protist cultures.

Mouse embryonic stem cells can be used to produce transgenic animals.

Unique cell lines of American mink pluripotent stem cells allow studying the early embryonic development of mustelids.

Research areas:

- derivation of cell lines for fundamental and applied research in the fields of developmental biology, cell biology and transgenesis, including embryonic stem and induced pluripotent stem cells of humans, mice and other laboratory animals, primary and with genetic modifications;
- systematic description of the generated cell lines;
- quality control of collection material using modern methods.

Manager: Aleksei Gavriilovich Menzorov, Ph.D.

Website: <http://ckp.icgen.ru/cells/>

E-mail: cellbank@bionet.nsc.ru

Contents

Mouse pluripotent stem cells	6
Cell line passport of DGE51	6
Cell line passport of DGE52	7
Cell line passport of DGE51-TubbEGFPpuro	8
Cell line passport of DGE51-TubbEGFP	9
Cell line passport of DGE51-TubbEGFPSV40puro	10
Cell line passport of MA01	12
Cell line passport of MA01-3E	13
Cell line passport of MA02	14
Cell line passport of MA03	15
Cell line passport of MA04	16
Cell line passport of MA05	17
Cell line passport of MA06	18
Cell line passport of MA07	19
Cell line passport of MA08	20
Cell line passport of MA09	21
Cell line passport of MA10	22
Cell line passport of MA11	23
Cell line passport of MA12	24
Cell line passport of MA13	25
Cell line passport of MA15	26
Cell line passport of MC01	27
Cell line passport of MC02	28
Cell line passport of MC03	29
Cell line passport of MC04	30
Cell line passport of MC05	31
Cell line passport of MC06	32
Cell line passport of MC07	33
Cell line passport of MC08	34
Cell line passport of MC09	35
Cell line passport of MC10	36
Cell line passport of MC11	37
Cell line passport of MC12	38
Cell line passport of MC13	39
Cell line passport of MC15	40
Cell line passport of MD01	41

Cell line passport of MD02	42
Hybrid cells	43
Cell line passport of tme13	43
Cell line passport of tme14	44
Cell line passport of tme17	45
Cell line passport of tmf1	46
Cell line passport of tmf2	47
Cell line passport of tmf5	48
American mink pluripotent stem cells	49
Cell line passport of MES12	49
Cell line passport of MES20	50
Cell line passport of MES22	51
Cell line passport of MES24	52
Cell line passport of MES25	53
Cell line passport of MES27	54
Cell line passport of MES29	55
Cell line passport of iNV1XX1	56
Cell line passport of iNV1XX2	57
Cell line passport of iNV3	58
Cell line passport of iNV5	59
Cell line passport of iNV6	60
Cell line passport of iNV7	61
Cell line passport of iNV9	62
Cell line passport of iNV11	63
Cell line passport of iNV13	64
Cell line passport of iNV15	65
Cell line passport of iNV18	66
Cell line passport of iNV19	67
Cell line passport of iNV20	68
Tumor cell lines	69
Cell line passport of NG-16	69
Cell line passport of NG-19	70
Cell line passport of NG-20	71
Cell line passport of NG-23	72
Cell line passport of NG-25	73
Cell line passport of CAR-YT	74
Cell line passport of CAR-YT-Lact	75
Cell line passport of CYTO-CAR-YT-Lact	76

Cell line passport of EBV-positive B lymphoblastoid cell line	77
Immortalised cell lines	78
Cell line passport of CHO-hCNTN6-HA	78
Cell line passport of CHO-hDLL1-HA	79
Cell line passport of CHO-hNOTCH1-FLAG	80
Cell line passport of CHO-hNOTCH2-FLAG	81
Human fibroblasts	82
Cell line passport of NAF1nor	82
Bird fibroblasts	83
Cell line passport of OFC1A	83
Human induced pluripotent stem cells	84
Cell line passport of iTAF2nor3	84
Cell line passport of iTAF2nor4	85
Cell line passport of iCS-MCM1-2	86
Cell line passport of iCS-MCM1-4	87
Cell line passport of iCS-MCM1-13	88
Cell line passport of iCS-MCF2-5	89
Cell line passport of iCS-MCF2-6	90
Cell line passport of iCS-MCF2-24	91
Cell line passport of iCS-MCF3-1	92
Cell line passport of iCS-MCF3-3	93
Cell line passport of iCS-MCF3-5	94
Cell line passport of iTAF15Xsk1	95
Cell line passport of iTAF15Xsk4	96
Cell line passport of iTAF15Xsk6	97
Cell line passport of iTAF15Xsk12	98
Cell line passport of iTAF15Xsk13	99
Cell line passport of iTAF15Xsk31	100
Cell line passport of iTAF15Xsk39	101
Cell line passport of iTAF5rc11	102
Cell line passport of iTAF5rc13	103
Cell line passport of iTAF5rc15	104
Cell line passport of iTAF5rc16	105
Cell line passport of iTAF5rc17	106
Cell line passport of iTAF5rc19	107
Cell line passport of iTAF1-36-H8.1	108
Cell line passport of iTAF1-36-H8.2	109
Protists	110

Cell line passport of THAU1	110
Cell line passport of THCA1.....	111
Cell line passport of THCA1hygro1	112
Cell line passport of THCA1zeo3	113
Cell line passport of THCA1zeo5	114

Mouse pluripotent stem cells

Cell line passport of DGES1

Catalogue number: MMES00001

Name: DGES1

Description: mouse (*Mus musculus*) embryonic stem cells derived from 129S2/SvPasCrl 3.5D blastocyst

Authors: Menzorov A.G., Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells 6%, modal chromosome number 40

Pluripotency: pluripotency is shown by embrioid body formation, teratoma formation in SCID mice and germ line transmission

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1002/jcb.28981>

Cell line passport of DGES2

Catalogue number: MMES00002

Name: DGES2

Description: mouse (*Mus musculus*) embryonic stem cells derived from 129S2/SvPasCrl 3.5D blastocyst

Authors: Menzorov A.G., Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells 5%, modal chromosome number 40

Pluripotency: pluripotency is shown by embrioid body formation, teratoma formation in SCID mice and germ line transmission

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1002/jcb.28981>

Cell line passport of DGES1-TubbEGFPpuro

Catalogue number: MMES00038

Name: DGES1-TubbEGFPpuro

Description: DGES1 mouse embryonic stem cells with site-specific EGFP insertion after bTubb3 last exon via 2A peptide and puromycin resistance

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells less than 10%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 24

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1002/jcb.28981>

Cell line passport of DGES1-TubbEGFP

Catalogue number: MMES00039

Name: DGES1-TubbEGFP

Description: DGES1 mouse embryonic stem cells with site-specific EGFP insertion after bTubb3 last exon via 2A peptide

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells less than 10%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 22

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1002/jcb.28981>

Cell line passport of DGES1-TubbEGFPSV40puro

Catalogue number: MMES00040

Name: DGES1-TubbEGFPSV40puro

Description: DGES1 mouse embryonic stem cells with site-specific EGFP insertion after bTubb3 last exon via 2A peptide, SV40 polyA signal and puromycin resistance (site-specific and unspecific insert)

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells less than 5%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 20

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1002/jcb.28981>

Cell line passport of DGES1-TubbEGFPSV40

Catalogue number: MMES00041

Name: DGES1-TubbEGFPSV40

Description: DGES1 mouse embryonic stem cells with site-specific EGFP insertion after bTubb3 last exon via 2A peptide, SV40 polyA signal and puromycin resistance (unspecific insert)

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-40, tetraploid cells less than 2%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 26

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1002/jcb.28981>

Cell line passport of MA01

Catalogue number: MMES00004

Name: MA01

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-45, tetraploid cells less than 2%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice and germ line transmission

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA01-3E

Catalogue number: MMES00037

Name: MA01-3E

Description: MA01 mouse embryonic stem cells with EGFP cassette in Trim71 gene

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells less than 2%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in SCID mice and germ line transmission

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA02

Catalogue number: MMES000005

Name: MA02

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-41, tetraploid cells 13%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice and chimeric animal generation

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA03

Catalogue number: MMES00006

Name: MA03

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 40-42, 71-83, tetraploid cells 79%, modal chromosome number 78, 79

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 7

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA04

Catalogue number: MMES00007

Name: MA04

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-42, tetraploid cells 28%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA05

Catalogue number: MMES00008

Name: MA05

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-42, tetraploid cells 18%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 8

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA06

Catalogue number: MMES00009

Name: MA06

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 40-41, tetraploid cells 17%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice and chimeric animal generation

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA07

Catalogue number: MMES00010

Name: MA07

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-43, tetraploid cells 24%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA08

Catalogue number: MMES00011

Name: MA08

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-41, tetraploid cells 11%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA09

Catalogue number: MMES00012

Name: MA09

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells 8%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA10

Catalogue number: MMES00013

Name: MA10

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-43, tetraploid cells 7%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA11

Catalogue number: MMES00014

Name: MA11

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-41, tetraploid cells 20%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 7

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA12

Catalogue number: MMES00015

Name: MA12

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-42, tetraploid cells 2%, modal chromosome number 40, 41

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 5

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA13

Catalogue number: MMES00016

Name: MA13

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, X0, chromosome number variability 39-43, tetraploid cells 8,6%, modal chromosome number 39

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MA15

Catalogue number: MMES00017

Name: MA15

Description: mouse (*Mus musculus*) embryonic stem cells derived from outbred BALB x 129/Ola blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-45, tetraploid cells 5%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC01

Catalogue number: MMES00048

Name: MC01

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-45, tetraploid cells 32%, modal chromosome number 41, 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC02

Catalogue number: MMES00049

Name: MC02

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-43, tetraploid cells 16%, modal chromosome number 41, 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 5

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC03

Catalogue number: MMES00050

Name: MC03

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-45, tetraploid cells 6%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC04

Catalogue number: MMES00051

Name: MC04

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 41-45, tetraploid cells 15%, modal chromosome number 42

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 5

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC05

Catalogue number: MMES00052

Name: MC05

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-40, tetraploid cells 15%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC06

Catalogue number: MMES00053

Name: MC06

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-41, tetraploid cells 52%, modal chromosome number 40, 78, 79

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC07

Catalogue number: MMES00054

Name: MC07

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 40-43, tetraploid cells 18%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC08

Catalogue number: MMES00055

Name: MC08

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-41, tetraploid cells 21%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC09

Catalogue number: MMES00056

Name: MC09

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 40-43, tetraploid cells 18%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC10

Catalogue number: MMES00057

Name: MC10

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 40-43, tetraploid cells 18%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 11

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC11

Catalogue number: MMES00058

Name: MC11

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 40-43, tetraploid cells 25%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC12

Catalogue number: MMES00059

Name: MC12

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 39-42, tetraploid cells 8%, modal chromosome number 40

Pluripotency: pluripotency is shown by teratoma formation in NU/NU mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC13

Catalogue number: MMES00060

Name: MC13

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-43, tetraploid cells 8%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 8

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MC15

Catalogue number: MMES00061

Name: MC15

Description: mouse (*Mus musculus*) embryonic stem cells derived from C57BL x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XY, chromosome number variability 40-44, tetraploid cells 20%, modal chromosome number 41, 42, 43

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MD01

Catalogue number: MMES00062

Name: MD01

Description: mouse (*Mus musculus*) embryonic stem cells derived from DD/c x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XX, chromosome number variability 39-44, tetraploid cells 26%, modal chromosome number 40

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 7

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Cell line passport of MD02

Catalogue number: MMES00063

Name: MD02

Description: mouse (*Mus musculus*) embryonic stem cells derived from DD/c x (outbred BALB x 129/Ola) blastocyst

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=40, XXX0, chromosome number variability 40-48, 54-60, tetraploid cells 95%, modal chromosome number 80

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: transgenesis, developmental biology

Source

Species: *Mus musculus*

Tissue: blastocyst

Date: 01.01.2016

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1007/s10616-014-9751-y>

Hybrid cells

Cell line passport of tme13

Catalogue number: MMHC00042

Name: tme13

Description: hybrid cells produced by mouse tau-GFP ES cell and m5S embryonic fibroblast fusion, embryonic stem cell phenotype

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=80, XX0, 83% of the cells have number of chromosomes 66-79

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of pluripotency, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1038/s41598-017-18352-4>

Cell line passport of tme14

Catalogue number: MMHC00043

Name: tme14

Description: hybrid cells produced by mouse tau-GFP ES cell and m5S embryonic fibroblast fusion, embryonic stem cell phenotype

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=80, XX0, 92% of the cells have number of chromosomes 69-77

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 17

Area of application: study of pluripotency, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1038/s41598-017-18352-4>

Cell line passport of tme17

Catalogue number: MMHC00044

Name: tme17

Description: hybrid cells produced by mouse tau-GFP ES cell and m5S embryonic fibroblast fusion, embryonic stem cell phenotype

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=80, XX0, 75% of the cells have number of chromosomes 71-79

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of pluripotency, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: mouse pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1038/s41598-017-18352-4>

Cell line passport of tmf1

Catalogue number: MMHC00045

Name: tmf1

Description: hybrid cells produced by mouse tau-GFP ES cell and m5S embryonic fibroblast fusion, fibroblast phenotype

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=80, XXY, 90% of the cells have number of chromosomes 69-82

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 7

Area of application: study of pluripotency, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: fibroblast morphology

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References: <https://doi.org/10.1038/s41598-017-18352-4>

Cell line passport of tmf2

Catalogue number: MMHC00046

Name: tmf2

Description: hybrid cells produced by mouse tau-GFP ES cell and m5S embryonic fibroblast fusion, fibroblast phenotype

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=80, XXY, 76% of the cells have number of chromosomes 71-82

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: study of pluripotency, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: fibroblast morphology

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References: <https://doi.org/10.1038/s41598-017-18352-4>

Cell line passport of tmf5

Catalogue number: MMHC00047

Name: tmf5

Description: hybrid cells produced by mouse tau-GFP ES cell and m5S embryonic fibroblast fusion, fibroblast phenotype

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=80, XXY, 86% of the cells have number of chromosomes 73-81

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: study of pluripotency, developmental biology

Source

Species: *Mus musculus*

Tissue:

Date: 01.01.2017

Cell culture

Morphology: fibroblast morphology

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References: <https://doi.org/10.1038/s41598-017-18352-4>

American mink pluripotent stem cells

Cell line passport of MES12

Catalogue number: NVES00003

Name: MES12

Description: american mink (Neovison vison) embryonic stem cells derived from morula

Authors: Sukoyan M.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY

Pluripotency: pluripotency is shown by embrioid body formation and teratoma formation in immunodeficient mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 11

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.1993

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of MES20

Catalogue number: NVES00018

Name: MES20

Description: american mink (*Neovison vison*) embryonic stem cells derived from morula

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-30, ~60, tetraploid cells 71%, modal chromosome number ~60

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM (glucose 4.5 g/l), ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, LIF 1000 U/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.05%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of MES22

Catalogue number: NVES00019

Name: MES22

Description: american mink (*Neovison vison*) embryonic stem cells derived from morula

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 18%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of MES24

Catalogue number: NVES00020

Name: MES24

Description: american mink (*Neovison vison*) embryonic stem cells derived from morula

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 12%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of MES25

Catalogue number: NVES00021

Name: MES25

Description: american mink (*Neovison vison*) embryonic stem cells derived from morula

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XX, chromosome number variability 29-30, tetraploid cells 6%, modal chromosome number 30

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of MES27

Catalogue number: NVES00022

Name: MES27

Description: american mink (*Neovison vison*) embryonic stem cells derived from morula

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 7%, modal chromosome number 30

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of MES29

Catalogue number: NVES00023

Name: MES29

Description: american mink (*Neovison vison*) embryonic stem cells derived from morula

Authors: Matveeva N.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 6%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: morula

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV1XX1

Catalogue number: NVPS00066

Name: iNV1XX1

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XX, chromosome number variability 29-35, tetraploid cells 2%, modal chromosome number 30

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.11.2017

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.18699/LettersVJ-2022-8-10>

Cell line passport of iNV1XX2

Catalogue number: NVPS00067

Name: iNV1XX2

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XX, chromosome number variability 29-35, tetraploid cells 4%, modal chromosome number 30

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.11.2017

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.18699/LettersVJ-2022-8-10>

Cell line passport of iNV3

Catalogue number: NVPS00024

Name: iNV3

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV5

Catalogue number: NVPS00025

Name: iNV5

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-30, tetraploid cells 7%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV6

Catalogue number: NVPS00026

Name: iNV6

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 7%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV7

Catalogue number: NVPS00027

Name: iNV7

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 30-32, tetraploid cells 10%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV9

Catalogue number: NVPS00028

Name: iNV9

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-30, tetraploid cells 9%, modal chromosome number 30

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 12

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV11

Catalogue number: NVPS00029

Name: iNV11

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 9%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 11

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV13

Catalogue number: NVPS00030

Name: iNV13

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-30, tetraploid cells 3%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV15

Catalogue number: NVPS00031

Name: iNV15

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 6%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV18

Catalogue number: NVPS00032

Name: iNV18

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 8%, modal chromosome number 30

Pluripotency: pluripotency is shown by expression of specific markers

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 6

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV19

Catalogue number: NVPS00033

Name: iNV19

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-30, tetraploid cells 8%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 4

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Cell line passport of iNV20

Catalogue number: NVPS00034

Name: iNV20

Description: american mink (*Neovison vison*) induced pluripotent stem cells derived from embryonic fibroblasts

Authors: Menzorov A.G., Matveeva N.M., Khabarova A.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=30, XY, chromosome number variability 29-32, tetraploid cells 21%, modal chromosome number 30

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: study of pluripotency, developmental biology

Source

Species: *Neogale vison*

Tissue: fibroblasts

Date: 01.01.2015

Cell culture

Morphology: mink pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: a-MEM, ES cell qualified FBS 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References: <https://doi.org/10.1186/1471-2164-16-S13-S6>

Tumor cell lines

Cell line passport of NG-16

Catalogue number: HSPS00092

Name: NG-16

Description: glioma cells from tumor biopsy

Authors: Shnaider T.A., Pristyazhnyuk I.E., Yakovleva S.A., Stupak E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46,XX, chromosome number variability 42-48, polyploid cells 3.2%, modal chromosome number 46

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: pharmaceutical substance testing

Source

Species: *Homo sapiens*

Tissue: glioblastoma, grade IV

Date: 30.11.2023

Cell culture

Morphology: fibroblast-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of NG-19

Catalogue number: HSPS00093

Name: NG-19

Description: glioma cells from tumor biopsy

Authors: Shnaider T.A., Pristyazhnyuk I.E., Yakovleva S.A., Stupak E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46,XY, chromosome number variability 44-47, polyploid cells 5.7%, modal chromosome number 46

Pluripotency:

Additional characteristics: chromosomal instability, presense of chromosome 1 derivatives (chromosome 1 and 19 codeletion) chromosome 2 derivatives

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: pharmaceutical substance testing

Source

Species: *Homo sapiens*

Tissue: glioblastoma of the left frontal lobe, grade IV

Date: 30.11.2023

Cell culture

Morphology: fibroblast-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of NG-20

Catalogue number: HSPS00094

Name: NG-20

Description: glioma cells from tumor biopsy

Authors: Shnaider T.A., Pristiyazhnyuk I.E., Yakovleva S.A., Stupak E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46,XY, chromosome number variability 42-48, polyploid cells 4.7%, modal chromosome number 46

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: pharmaceutical substance testing

Source

Species: *Homo sapiens*

Tissue: astrocytoma in the area of the right temporal and parietal lobes, grade 3

Date: 30.11.2023

Cell culture

Morphology: fibroblast-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of NG-23

Catalogue number: HSPS00095

Name: NG-23

Description: glioma cells from tumor biopsy

Authors: Shnaider T.A., Pristiyazhnyuk I.E., Yakovleva S.A., Stupak E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=45,X0; 46,XY, chromosome number variability 40-47, polyploid cells 2%, modal chromosome number 45

Pluripotency:

Additional characteristics: chromosome Y loss

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: pharmaceutical substance testing

Source

Species: *Homo sapiens*

Tissue: glioblastoma

Date: 30.11.2023

Cell culture

Morphology: fibroblast-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of NG-25

Catalogue number: HSPS00096

Name: NG-25

Description: glioma cells from tumor biopsy

Authors: Shnaider T.A., Pristiyazhnyuk I.E., Yakovleva S.A., Stupak E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46,XY, chromosome number variability 42-89, polyploid cells 9%, modal chromosome number 46

Pluripotency:

Additional characteristics: multiple chromosomal rearrangements

Species control: cytogenetic

Cryoconservation passage: 3

Area of application: pharmaceutical substance testing

Source

Species: *Homo sapiens*

Tissue: glioblastoma of the left frontal lobe, grade IV (NG-19 relapse)

Date: 30.11.2023

Cell culture

Morphology: neurosphere

Cell culture method: neurosphere

Cell culture medium: DMEM/F12, FBS 10%, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of CAR-YT

Catalogue number: HSCC00068

Name: CAR-YT

Description: NK-cell lymphoma, produced from NK-cell lymphoma YT by lentiviral transduction of a genetic construct coding chimeric antigen receptor with specificity to human PSMA protein

Authors: Gorchakov A.A., Kulemzin S.V., Belovezhets T.N., Chikaev A.N., Koval O.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=92, XXYY, chromosome number variability 84-98, polyploid cells 12%, modal chromosome number 92

4n=92, XXYY, range of chromosomes number 84-98, poliploids 12%, modal chromosome number 92

Pluripotency:

Additional characteristics: cloning efficiency 20%; DNA region integrated into the genome, from 5'LTR to 3'LTR: strong constitutive promoter of the human *EF1a* gene, sequence encoding the signal peptide of the light chain of immunoglobulin kappa, fused with a sequence encoding a chimeric antigen receptor with specificity for the human PSMA protein. Further, the IRES element of cardiovirus A with a sequence encoding the gene for resistance to the antibiotic zeocin.

Species control: cytogenetic

Cryoconservation passage: 8

Area of application: immunology, oncology

Source

Species: *Homo sapiens*

Tissue: NK-cells

Date: 05.06.2018

Cell culture

Morphology: suspension cells, upon activation can form 3-8 cell colonies; cell morphology is from spheroid to moderately asymmetric

Cell culture method: cell suspension

Cell culture medium: IMDM (glucose 4.5 g/l, L-glutamine 4mM, HEPES 25 mM, Na-Pyruvate 1mM), FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell culture resuspending every two days at the ratio 1:2

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 2 mln cells / ml

Cell viability after cryoconservation: 50%

Additional information: cell line is given to the collection for the depositing

References: <https://doi.org/10.23868/201811039>

Cell line passport of CAR-YT-Lact

Catalogue number: HSCC00069

Name: CAR-YT-Lact

Description: NK-cell lymphoma, obtained from the NK-cell lymphoma YT by lentiviral integration of cassettes encoding a chimeric antigen receptor with specificity to the human protein PSMA and the RL2 peptide (lactaptin)

Authors: Gorchakov A.A., Kulemzin S.V., Belovezhets T.N., Chikaev A.N., Koval O.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=92, XXYY, chromosome number variability 84-98, polyploid cells 12%, modal chromosome number 92

Pluripotency:

Additional characteristics: Cloning efficiency of 20%; two DNA regions integrated into the genome, from 5'LTR to 3'LTR: a) a strong constitutive promoter of the human *EF1a* gene, a sequence encoding the signal peptide of the kappa immunoglobulin light chain, fused to a sequence encoding a chimeric antigen receptor with specificity for the human PSMA protein. Then there is an IRES element of cardiovirus A with a sequence encoding the gene for resistance to the antibiotic zeocin. b) a strong constitutive promoter of the human *EF1a* gene, a sequence encoding the signal peptide of the copepod *Gaussia princeps* luciferase (GlucSP), fused to a sequence encoding the RL2 peptide (lactaptin), marked with a hexahistidine epitope. Next is the IRES element of cardiovirus A with a sequence encoding a transduction or transfection marker, the copGFP fluorescent protein of the copepod *Pontellina plumata*.

Species control: cytogenetic

Cryoconservation passage: 8

Area of application: immunology, oncology

Source

Species: *Homo sapiens*

Tissue: NK-cells

Date: 05.06.2018

Cell culture

Morphology: suspension cells, upon activation can form 3-8 cell colonies; cell morphology is from spheroid to moderately asymmetric

Cell culture method: cell suspension

Cell culture medium: IMDM (glucose 4.5 g/l, L-glutamine 4 mM, HEPES 25 mM, Na-Pyruvate 1 mM), FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell culture resuspending every two days at the ratio 1:2

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 2 mln cells / ml

Cell viability after cryoconservation: 50%

Additional information: cell line is given to the collection for the depositing

References: <https://doi.org/10.23868/201811039>

Cell line passport of CYTO-CAR-YT-Lact

Catalogue number: HSCC00070

Name: CYTO-CAR-YT-Lact

Description: modified NK-cell lymphoma, obtained from the NK-cell lymphoma YT by lentiviral integration of cassettes encoding a chimeric antigen receptor with specificity to the human protein PSMA and the RL2 peptide (lactaptin). In addition, genetic editing was carried out, affecting chromosome 12 and leading to an increase in cell cytotoxicity.

Authors: Gorchakov A.A., Kulemzin S.V., Belovezhets T.N., Chikaev A.N., Koval O.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=92, XXYY, chromosome number variability 84-98, polyploid cells 12%, modal chromosome number 92

Pluripotency:

Additional characteristics: 20% cloning efficiency; CAR-YT-Lact cells were transduced with the GeCKO knockout library and cells exhibiting enhanced cytotoxicity towards PC3-PSMA targets were selected. The cells were then subcloned and individual clones were further analyzed. The genetic editing affects chromosome 12 and results in a biallelic deletion.

Species control: cytogenetic

Cryoconservation passage: 13

Area of application: immunology, oncology

Source

Species: *Homo sapiens*

Tissue: NK-cells

Date: 05.06.2019

Cell culture

Morphology: suspension cells, upon activation can form 3-8 cell colonies; cell morphology is from spheroid to moderately asymmetric

Cell culture method: cell suspension

Cell culture medium: IMDM (glucose 4.5 g/l, L-glutamine 4 mM, HEPES 25 mM, Na-Pyruvate 1 mM), FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell culture resuspending every two days at the ratio 1:2

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 2 mln cells / ml

Cell viability after cryoconservation: 50%

Additional information: cell line is given to the collection for the depositing

References:

Cell line passport of EBV-positive B lymphoblastoid cell line

Catalogue number: HSCC00081

Name: EBV-positive B lymphoblastoid cell line

Description: Epstein-Barr virus-induced human B-lymphoma. Derived from bone marrow aspirate of a patient diagnosed with multiple myeloma. The cell culture is a descendant of an Epstein-Barr virus-infected B-clone that displaced clonotypic MM cells over several in vitro culture passages.

Authors: Dolgova E.V., Pronkina N.V., Chernykh E.R, Bogachev S.S.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 4n=92, XYY

Pluripotency:

Additional characteristics: karyotype: nuc ish

(IGHx2)[200]/(CKS1B,CDKN2C)x2[200]/(DLEU,LAMP)x2[200]/(D17Z1,TP53)x2[200]. *IGH*/14q32 locus rearrangement, deletion/amplification of the *CKS1B*/1q21, *CDKN2C*/1p32 loci, *DLEU*/13q14.2 deletion, *LAMP*/13q34, *TP53*/17p13 not found in the plasma cells.

Species control: cytogenetic

Cryoconservation passage: 9

Area of application: cell biology, oncology

Source

Species: *Homo sapiens*

Tissue: bone marrow

Date: 29.09.2014

Cell culture

Morphology: cell suspension, within 2-6 hours of cultivation cells form spherical aggregates up to 80 µm in size. Single cells are also present in the suspension. The shape of individual cells varies from spherical to moderately irregular.

Cell culture method: cell suspension

Cell culture medium: α-MEM, 10% FBS, gentamycin 40 µg/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell culture resuspending every two days at the ratio 1:2

Cryoconservation: 50% FBS, 40% α-MEM, 10% DMSO

Cryoconservation cell concentration: 1 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information: cell line is given to the collection for the depositing

References: <https://doi.org/10.1016/j.clml.2016.06.014>; <https://doi.org/10.1186/s12935-019-0842-x>

Immortalised cell lines

Cell line passport of CHO-hCNTN6-HA

Catalogue number: CGOC00103

Name: CHO-hCNTN6-HA

Description: genetically modified CHO cell line (Chinese hamster ovary cells, *Cricetulus griseus*) with a constitutive expression of the human *CNTN6* gene and HA-tag

Authors: Yunusova A.M., Chvileva A.S., Shnaider T.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 22, chromosome number variability 16-20, modal chromosome number 19, polyploid cells 13%

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 22

Area of application: Notch signaling pathway study

Source

Species: *Cricetulus griseus*

Tissue: ovary

Date: 09.10.2024

Cell culture

Morphology: epithelial-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3 - 1:10

Cryoconservation: 50% FBS, 40% DMEM/F12, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 90%

Additional information:

References:

Cell line passport of CHO-hDLL1-HA

Catalogue number: CGOC00104

Name: CHO-hDLL1-HA

Description: genetically modified CHO cell line (Chinese hamster ovary cells, *Cricetulus griseus*) with a constitutive expression of the human *DLL1* gene and HA-tag

Authors: Yunusova A.M., Chvileva A.S., Shnaider T.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 22, chromosome number variability 19-22, modal chromosome number 20, polyploid cells 9%

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 20

Area of application: Notch signaling pathway study

Source

Species: *Cricetulus griseus*

Tissue: ovary

Date: 09.10.2024

Cell culture

Morphology: epithelial-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3 - 1:10

Cryoconservation: 50% FBS, 40% DMEM/F12, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 90%

Additional information:

References:

Cell line passport of CHO-hNOTCH1-FLAG

Catalogue number: CGOC00105

Name: CHO-hNOTCH1-FLAG

Description: genetically modified CHO cell line (Chinese hamster ovary cells, *Cricetulus griseus*) with a constitutive expression of the human *NOTCH1* gene and FLAG-tag

Authors: Yunusova A.M., Chvileva A.S., Shnaider T.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 22, chromosome number variability 18-21, modal chromosome number 20, polyploid cells 12%

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 23

Area of application: Notch signaling pathway study

Source

Species: *Cricetulus griseus*

Tissue: ovary

Date: 09.10.2024

Cell culture

Morphology: epithelial-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3 - 1:10

Cryoconservation: 50% FBS, 40% DMEM/F12, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 90%

Additional information:

References:

Cell line passport of CHO-hNOTCH2-FLAG

Catalogue number: CGOC00106

Name: CHO-hNOTCH2-FLAG

Description: genetically modified CHO cell line (Chinese hamster ovary cells, *Cricetulus griseus*) with a constitutive expression of the human *NOTCH2* gene and FLAG-tag

Authors: Yunusova A.M., Chvileva A.S., Shnaider T.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 22, chromosome number variability 20-21, modal chromosome number 21, polyploid cells 15%

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 23

Area of application: Notch signaling pathway study

Source

Species: *Cricetulus griseus*

Tissue: ovary

Date: 09.10.2024

Cell culture

Morphology: epithelial-like cells

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with 0.25% Trypsin-EDTA at the ratio 1:3 - 1:10

Cryoconservation: 50% FBS, 40% DMEM/F12, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 90%

Additional information:

References:

Human fibroblasts

Cell line passport of NAF1nor

Catalogue number: HSAF00064

Name: NAF1nor

Description: human skin fibroblasts, donor age 32 years, XY

Authors: Gridina M.M.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XY

Pluripotency:

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 1

Area of application: developmental biology

Source

Species: *Homo sapiens*

Tissue: skin

Date: 01.01.2017

Cell culture

Morphology: fibroblast morphology

Cell culture method: monolayer

Cell culture medium: DMEM/F12, FBS 10%, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: passage with trypsin-EDTA 0.25%, split 1:3 - 1:4

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Bird fibroblasts

Cell line passport of OFC1A

Catalogue number: PMOF00097

Name: OFC1A

Description: Great tit ovary cells with fibroblast morphology

Authors: Pristyazhnyuk I.E., Malinovskaya L.P.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2N,ZW, 6 pairs of macrochromosomes, 33 pairs of microchromosomes

Pluripotency:

Additional characteristics: presence of rearranged chromosome homologues to chromosomes 4, 5 or 6.

Species control: cytogenetic

Cryoconservation passage: 8

Area of application:

Source

Species: *Parus major*

Tissue: ovary

Date: 26.08.2022

Cell culture

Morphology: fibroblast-like cells

Cell culture method: monolayer

Cell culture medium: DMEM, FBS 10%, 2% chicken serum, NEAA 1%, Glutamine 1%, PenStrep 1%

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: cell passage with Trypsin-EDTA at the ratio 1:3

Cryoconservation: 50% FBS, 40% DMEM, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References: <https://doi.org/10.3390/ani12131724>

Human induced pluripotent stem cells

Cell line passport of iTAF2nor3

Catalogue number: HSPS00035

Name: iTAF2nor3

Description: human iPSCs derived from skin fibroblasts

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XY, chromosome number variability 45-47, tetraploid cells <1%, modal chromosome number 46

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 16

Area of application: transgenesis, developmental biology

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 01.01.2017

Cell culture

Morphology: human pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, KSR 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 0,05

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References:

Cell line passport of iTAF2nor4

Catalogue number: HSPS00036

Name: iTAF2nor4

Description: human iPSCs derived from skin fibroblasts

Authors: Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XY, chromosome number variability 45-47, tetraploid cells <1%, modal chromosome number 46

Pluripotency: pluripotency is shown by teratoma formation in SCID mice

Additional characteristics:

Species control: cytogenetic

Cryoconservation passage: 16

Area of application: transgenesis, developmental biology

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 01.01.2017

Cell culture

Morphology: human pluripotent stem cell colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, KSR 15%, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage, split 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 0,05

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells.

References:

Cell line passport of iCS-MCM1-2

Catalogue number: HSPS00072

Name: iCS-MCM1-2

Description: Human iPSCs derived from mononuclear blood cells of a patient with Cohen syndrome

Authors: Shnaider T.A., Khabarova A.A., Grigor'eva E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-48, tetraploid cells 1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: COH1-/-; chr8:g.100108653dup - reading frame shift; chr8:g.100494031G>T - nucleotide substitution in the untranslated sequence of the splice donor, which with a very high probability leads to its loss and disruption of the normal process of splicing and transcription of the gene (GRCh37/hg19)

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: developmental biology, neurogenesis, Cohen syndrome

Source

Species: *Homo sapiens*

Tissue: mononuclear blood cells

Date: 23.11.2021

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.3390/cells12232702>

Cell line passport of iCS-MCM1-4

Catalogue number: HSPS00073

Name: iCS-MCM1-4

Authors: Shnaider T.A., Khabarova A.A., Grigor'eva E.V.

Description: Human iPSCs derived from mononuclear blood cells of a patient with Cohen syndrome

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-47, tetraploid cells 1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: COH1-/-; chr8:g.100108653dup - reading frame shift; chr8:g.100494031G>T - nucleotide substitution in the untranslated sequence of the splice donor, which with a very high probability leads to its loss and disruption of the normal process of splicing and transcription of the gene (GRCh37/hg19)

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: developmental biology, neurogenesis, Cohen syndrome

Source

Species: *Homo sapiens*

Tissue: mononuclear blood cells

Date: 23.11.2021

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iCS-MCM1-13

Catalogue number: HSPS00074

Name: iCS-MCM1-13

Description: Human iPSCs derived from mononuclear blood cells of a patient with Cohen syndrome

Authors: Shnaider T.A., Khabarova A.A., Grigor'eva E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-47, tetraploid cells 1,5%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: COH1-/-; chr8:g.100108653dup - reading frame shift; chr8:g.100494031G>T - nucleotide substitution in the untranslated sequence of the splice donor, which with a very high probability leads to its loss and disruption of the normal process of splicing and transcription of the gene (GRCh37/hg19)

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: developmental biology, neurogenesis, Cohen syndrome

Source

Species: *Homo sapiens*

Tissue: mononuclear blood cells

Date: 23.11.2021

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.3390/cells12232702>

Cell line passport of iCS-MCF2-5

Catalogue number: HSPS00075

Name: iCS-MCF2-5

Description: Human iPSCs derived from fibroblasts of a patient with Cohen syndrome

Authors: Khabarova A.A., Prist'yazhnyuk I.E., Vladimirova E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-47, tetraploid cells 0,5%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: COH1-/-; chr8:g.100514033T>C; chr8:g.100844663_100844664del (GRCh37/hg19)

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: developmental biology, neurogenesis, Cohen syndrome

Source

Species: *Homo sapiens*

Tissue: mononuclear blood cells

Date: 23.11.2021

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.3390/cells12232702>

Cell line passport of iCS-MCF2-6

Catalogue number: HSPS00076

Name: iCS-MCF2-6

Description: Human iPSCs derived from fibroblasts of a patient with Cohen syndrome

Authors: Khabarova A.A., Pristiyazhnyuk I.E., Vladimirova E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-48, tetraploid cells 1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: COH1-/-; chr8:g.100514033T>C; chr8:g.100844663_100844664del (GRCh37/hg19)

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: developmental biology, neurogenesis, Cohen syndrome

Source

Species: *Homo sapiens*

Tissue: mononuclear blood cells

Date: 23.11.2021

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iCS-MCF2-24

Catalogue number: HSPS00077

Name: iCS-MCF2-24

Description: Human iPSCs derived from fibroblasts of a patient with Cohen syndrome

Authors: Khabarova A.A., Pristiyazhnyuk I.E., Vladimirova E.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-47, tetraploid cells 1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: COH1-/-; chr8:g.100514033T>C; chr8:g.100844663_100844664del (GRCh37/hg19)

Species control: cytogenetic

Cryoconservation passage: 15

Area of application: developmental biology, neurogenesis, Cohen syndrome

Source

Species: *Homo sapiens*

Tissue: mononuclear blood cells

Date: 23.11.2021

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.3390/cells12232702>

Cell line passport of iCS-MCF3-1

Catalogue number: HSPS00098

Name: iCS-MCF3-1

Description: Human iPSCs derived from fibroblasts of a patient with Cohen syndrome

Authors: Prist'yazhnyuk I.E., Voinova V.Y., Safonova M.P., Lagarkova M.A., Volovikov E.A., Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 46-47, tetraploid cells 6%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: compound heterozygous *VPS13B* gene variants (8:g.99766811A>G and 8:g.99859429G>A, HG38)

Species control: cytogenetic

Cryoconservation passage: 5

Area of application: modeling of Cohen syndrome, study of lipid transport disorders

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 20.06.2024

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iCS-MCF3-3

Catalogue number: HSPS00099

Name: iCS-MCF3-3

Description: Human iPSCs derived from fibroblasts of a patient with Cohen syndrome

Authors: Prist'yazhnyuk I.E., Voinova V.Y., Safonova M.P., Lagarkova M.A., Volovikov E.A., Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 46-47, tetraploid cells 2%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: compound heterozygous *VPS13B* gene variants (8:g.99766811A>G and 8:g.99859429G>A, HG38)

Species control: cytogenetic

Cryoconservation passage: 5

Area of application: modeling of Cohen syndrome, study of lipid transport disorders

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 20.06.2024

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iCS-MCF3-5

Catalogue number: HSPS00100

Name: iCS-MCF3-5

Description: Human iPSCs derived from fibroblasts of a patient with Cohen syndrome

Authors: Prist'yazhnyuk I.E., Voinova V.Y., Safonova M.P., Lagarkova M.A., Volovikov E.A., Menzorov A.G.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 46-48, tetraploid cells 0%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: compound heterozygous VPS13B gene variants (8:g.99766811A>G and 8:g.99859429G>A, HG38)

Species control: cytogenetic

Cryoconservation passage: 5

Area of application: modeling of Cohen syndrome, study of lipid transport disorders

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 20.06.2024

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF15Xsk1

Catalogue number: HSPS00078

Name: iTAF15Xsk1

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Authors: Menzorov A.G., Nikitina T.V., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-48, tetraploid cells 3%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 26.08.2022

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF15Xsk4

Catalogue number: HSPS00079

Name: iTAF15Xsk4

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Authors: Menzorov A.G., Nikitina T.V., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-47, tetraploid cells 5%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 12

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 26.08.2022

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.1134/S1062360423060073>

Cell line passport of iTAF15Xsk6

Catalogue number: HSPS00080

Name: iTAF15Xsk6

Authors: Menzorov A.G., Nikitina T.V., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n=46, XX, chromosome number variability 46-48, tetraploid cells 1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 12

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 26.08.2022

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF15Xsk12

Catalogue number: HSPS00082

Name: iTAF15Xsk12

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Authors: Menzorov A.G., Meshcheryakov N.I., Nikitina T.V., Kashevarova A.A., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 46-48, tetraploid cells 10%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 7

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF15Xsk13

Catalogue number: HSPS00083

Name: iTAF15Xsk13

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Authors: Menzorov A.G., Meshcheryakov N.I., Nikitina T.V., Kashevarova A.A., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 46-48, tetraploid cells 4%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 7

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF15Xsk31

Catalogue number: HSPS00084

Name: iTAF15Xsk31

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Authors: Menzorov A.G., Meshcheryakov N.I., Nikitina T.V., Kashevarova A.A., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 44-49, tetraploid cells 4%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 12

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF15Xsk39

Catalogue number: HSPS00085

Name: iTAF15Xsk39

Description: Human iPSCs derived from fibroblasts from a patient with Xq24 microdeletion

Authors: Menzorov A.G., Meshcheryakov N.I., Nikitina T.V., Kashevarova A.A., Tolmacheva E.N., Minaycheva L.I., Nazarenko L.P., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX, chromosome number variability 44-90, tetraploid cells 11%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: Xq24

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: Xq24 microdeletion, UBE2A deficiency syndrome, recurrent miscarriage, asymmetric X-chromosome inactivation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF5rc11

Catalogue number: HSPS00086

Name: iTAF5rc11

Description: Human iPSCs derived from patient fibroblasts with a ring chromosome 22

Authors: Menzorov A.G., Pristyazhnyuk I.E., Nikitina T.V., Kashevarova A.A., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX,r(22) chromosome number variability 46-48, tetraploid cells <1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of genome instability in the presence of ring chromosomes

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF5rc13

Catalogue number: HSPS00087

Name: iTAF5rc13

Description: Human iPSCs derived from patient fibroblasts with a ring chromosome 22

Authors: Menzorov A.G., Pristiyazhnyuk I.E., Nikitina T.V., Kashevarova A.A., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX,r(22) chromosome number variability 45-46, tetraploid cells <1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of genome instability in the presence of ring chromosomes

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF5rc15

Catalogue number: HSPS00088

Name: iTAF5rc15

Description: Human iPSCs derived from patient fibroblasts with a ring chromosome 22

Authors: Menzorov A.G., Pristyazhnyuk I.E., Nikitina T.V., Kashevarova A.A., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX,r(22) chromosome number variability 45-46, tetraploid cells 3,3%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of genome instability in the presence of ring chromosomes

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF5rc16

Catalogue number: HSPS00089

Name: iTAF5rc16

Description: Human iPSCs derived from patient fibroblasts with a ring chromosome 22

Authors: Menzorov A.G., Pristyazhnyuk I.E., Nikitina T.V., Kashevarova A.A., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX,r(22) chromosome number variability 45-48, tetraploid cells 3,8%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of genome instability in the presence of ring chromosomes

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF5rc17

Catalogue number: HSPS00090

Name: iTAF5rc17

Description: Human iPSCs derived from patient fibroblasts with a ring chromosome 22

Authors: Menzorov A.G., Pristyazhnyuk I.E., Nikitina T.V., Kashevarova A.A., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX,r(22) chromosome number variability 45-46, tetraploid cells <1%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of genome instability in the presence of ring chromosomes

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF5rc19

Catalogue number: HSPS00091

Name: iTAF5rc19

Description: Human iPSCs derived from patient fibroblasts with a ring chromosome 22

Authors: Menzorov A.G., Pristyazhnyuk I.E., Nikitina T.V., Kashevarova A.A., Lebedev I.N.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46,XX,r(22) chromosome number variability 45-47, tetraploid cells 6,7%, modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 10

Area of application: study of genome instability in the presence of ring chromosomes

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 30.11.2023

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References:

Cell line passport of iTAF1-36-H8.1

Catalogue number: HSPS00101

Name: iTAF1-36-H8.1

Description: human iPSCs obtained from fibroblasts of a conditionally healthy donor, introduced deletion of HARsv2_1748 in the *CNTN6* gene (GRCh38/hg38 del3: 1,231,849-1,232,540; 690 bp)

Authors: Chvileva A.S., Yunusova A.M., Pristiyazhnyuk I.E., Smirnov A.V., Shnaider T.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46, XY, chromosome number variability 46-47, tetraploid cells 8% modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 12

Area of application: studies of HARsv2_1748 deletion, regulatory sequences in the *CNTN6* gene, mental retardation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 26.08.2022

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.1134/S1062360424700267>

Cell line passport of iTAF1-36-H8.2

Catalogue number: HSPS00102

Name: iTAF1-36-H8.1

Description: human iPSCs obtained from fibroblasts of a conditionally healthy donor, introduced deletion of HARsv2_1748 in the *CNTN6* gene (GRCh38/hg38 del3: 1,231,849-1,232,540; 690 bp)

Authors: Chvileva A.S., Yunusova A.M., Pristyazhnyuk I.E., Smirnov A.V., Shnaider T.A.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype: 2n = 46, XY, chromosome number variability 46-47, tetraploid cells 8% modal chromosome number 46

Pluripotency: pluripotency demonstrated in embryoid body formation test

Additional characteristics: r(22)

Species control: cytogenetic

Cryoconservation passage: 12

Area of application: studies of HARsv2_1748 deletion, regulatory sequences in the *CNTN6* gene, mental retardation

Source

Species: *Homo sapiens*

Tissue: fibroblasts

Date: 26.08.2022

Cell culture

Morphology: human ES cell phenotype colonies

Cell culture method: monolayer

Cell culture medium: DMEM/F12, 20% KSR, NEAA 1%, Glutamine 1%, PenStrep 1%, 2-Mercaptoethanol 0.1 mM, bFGF 10 ng/ml

Cell culture conditions: 37°C, 5% CO₂

Passage protocol: manual passage with the ratio 1:3 - 1:6

Cryoconservation: 90% KSR, 10% DMSO

Cryoconservation cell concentration: 0.5 mln cells / ml

Cell viability after cryoconservation: 5%

Additional information: Plastic is coated with 0.1% gelatin. 13.5 dpc fibroblasts of ICR mouse strain are used as feeder cells

References: <https://doi.org/10.1134/S1062360424700267>

Protists

Cell line passport of THAU1

Catalogue number: TAHE00071

Name: THAU1

Description: the protist *Thraustochytrium aureum* ssp. *strugatskii* was isolated from the dissociated comb jelly *Beroe ovata* (from the Black Sea)

Authors: Menzorov A.G., Doroshkov A.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype:

Pluripotency:

Additional characteristics:

Species control: rRNA sequencing

Cryoconservation passage: 10

Area of application: biotechnology, fatty acid production, study of the Labyrinthulea life cycle

Source

Species: *Thraustochytrium aureum* ssp. *strugatskii*

Tissue:

Date: 26.11.2020

Cell culture

Morphology: "colonies" of cells

Cell culture method: monolayer

Cell culture medium: a) FAND culture medium: 17 ASW, 5% FBS, 5% DMEM (prepared from powder on 17‰ ASW), x0.05 NEAA, x1 PenStrep; b) 790 By+ (ATCC)

Cell culture conditions: room temperature

Passage protocol: manual passage (scraping and resuspending) at the ratio 1:10 - 1:100

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 1 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References: <http://dx.doi.org/10.7717/peerj.12737>

Cell line passport of THCA1

Catalogue number: TAHE00107

Name: THCA1

Description: the protist *Thraustochytrium caudivorum* was isolated from the biota of the free-living flatworm *Macrostomum lignano*

Authors: Menzorov A.G., Biryukov M.Yu.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype:

Pluripotency:

Additional characteristics:

Species control: rRNA sequencing (NCBI Genbank PV862890.1 and PV862891.1)

Cryoconservation passage: 12

Area of application: study of host-parasite interactions, study of the life cycle of Labyrinthulea

Source

Species: *Thraustochytrium caudivorum*

Tissue:

Date: 22.07.2025

Cell culture

Morphology: single cells

Cell culture method: monolayer

Cell culture medium: 790 By+ (ATCC)

Cell culture conditions: room temperature

Passage protocol: manual passage (scrapping and resuspending) at the ratio 1:2 - 1:5

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 1 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of THCA1hygro1

Catalogue number: TAHE00108

Name: THCA1hygro1

Description: the protist *Thraustochytrium caudivorum* was isolated from the biota of the free-living flatworm *Macrostomum lignano*; a DNA fragment pUC19-HygroR-T2A-EGFP containing the hygromycin B resistance gene (*HygroR*) and *EGFP* under the control of the *GAPDH* promoter isolated from *Aurantiochytrium limacinum* was introduced by electroporation

Authors: Menzorov A.G., Biryukov M.Yu., Smirnov A.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype:

Pluripotency:

Additional characteristics: plasmid pUC19-HygroR-T2A-EGFP is based on pUC19_GZG (Addgene, #117226)

Species control: rRNA sequencing

Cryoconservation passage: 18

Area of application: study of host-parasite interactions, study of the life cycle of Labyrinthulea

Source

Species: *Thraustochytrium caudivorum*

Tissue:

Date: 22.07.2025

Cell culture

Morphology: single cells

Cell culture method: monolayer

Cell culture medium: 790 By+ (ATCC)

Cell culture conditions: room temperature

Passage protocol: manual passage (scraping and resuspending) at the ratio 1:2 - 1:5

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 1 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of THCA1zeo3

Catalogue number: TAHE00109

Name: THCA1zeo3

Description: the protist *Thraustochytrium caudivorum* was isolated from the biota of the free-living flatworm *Macrostomum lignano*; a DNA fragment pUC19-GZG-T2A-EGFP containing the blasticidin resistance gene (*shble*) and *EGFP* under the control of the *GAPDH* promoter isolated from *Aurantiochytrium limacinum* was introduced by electroporation

Authors: Menzorov A.G., Biryukov M.Yu., Smirnov A.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype:

Pluripotency:

Additional characteristics: plasmid pUC19-GZG-T2A-EGFP is based on pUC19_GZG (Addgene, #117226)

Species control: rRNA sequencing

Cryoconservation passage: 18

Area of application: study of host-parasite interactions, study of the life cycle of Labyrinthulea

Source

Species: *Thraustochytrium caudivorum*

Tissue:

Date: 22.07.2025

Cell culture

Morphology: single cells

Cell culture method: monolayer

Cell culture medium: 790 By+ (ATCC)

Cell culture conditions: room temperature

Passage protocol: manual passage (scraping and resuspending) at the ratio 1:2 - 1:5

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 1 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References:

Cell line passport of THCA1zeo5

Catalogue number: TAHE00110

Name: THCA1zeo5

Description: the protist *Thraustochytrium caudivorum* was isolated from the biota of the free-living flatworm *Macrostomum lignano*; a DNA fragment pUC19-GZG-T2A-EGFP containing the blasticidin resistance gene (*shble*) and *EGFP* under the control of the *GAPDH* promoter isolated from *Aurantiochytrium limacinum* was introduced by electroporation

Authors: Menzorov A.G., Biryukov M.Yu., Smirnov A.V.

Contamination analysis: bacteria, fungi and mycoplasma not detected

Karyotype:

Pluripotency:

Additional characteristics: plasmid pUC19-GZG-T2A-EGFP is based on pUC19_GZG (Addgene, #117226)

Species control: rRNA sequencing

Cryoconservation passage: 18

Area of application: study of host-parasite interactions, study of the life cycle of Labyrinthulea

Source

Species: *Thraustochytrium caudivorum*

Tissue:

Date: 22.07.2025

Cell culture

Morphology: single cells

Cell culture method: monolayer

Cell culture medium: 790 By+ (ATCC)

Cell culture conditions: room temperature

Passage protocol: manual passage (scraping and resuspending) at the ratio 1:2 - 1:5

Cryoconservation: 90% FBS, 10% DMSO

Cryoconservation cell concentration: 1 mln cells / ml

Cell viability after cryoconservation: 70%

Additional information:

References: