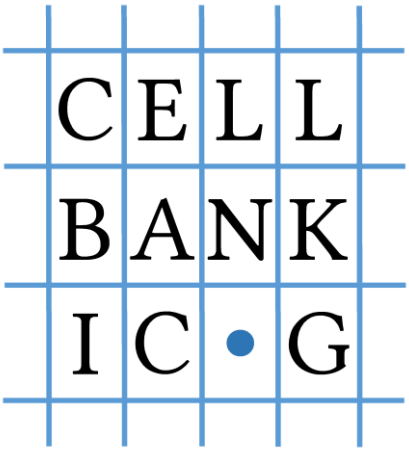

Collective Center of ICG SB RAS "Collection of Pluripotent Human and Mammalian Cell cultures for Biological and Biomedical Research"

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.

Services:

- distribution of cell cultures;
- training.

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

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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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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: MMES00005
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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% CO_2
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% CO_2
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 byteratoma 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% CO_2
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% CO_2
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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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% CO_2
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 byteratoma 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% CO_2
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 byteratoma 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% CO_2
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% CO_2
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% CO_2
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., Pristyazhnyuk 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% CO_2
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., Pristyazhnyuk 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% CO_2
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., Pristyazhnyuk 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% CO_2
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% CO_2
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% CO_2
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% CO_2
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, XXYY
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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., Pristyazhnyuk 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% CO_2
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., Pristyazhnyuk 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% CO_2
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., Pristyazhnyuk 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% CO_2
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: Pristyazhnyuk 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% CO_2
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: Pristyazhnyuk 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% CO_2
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: Pristyazhnyuk 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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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., 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% CO_2
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% CO_2
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% CO_2
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% CO_2
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% CO_2
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., 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: 25.06.2022

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% CO_2
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: 12.12.2023

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% CO_2
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-H7.1

Catalogue number: HSPS00111
Name: iTAF1-36-H7.1
Description: human iPSCs obtained from fibroblasts of a conditionally healthy donor, introduced compound heterozygous deletion of HARsv2_1747 in the *CNTN6* gene (GRCh38/hg38 del3: 1,195,873-1,196,314; 442 bp/ del3: 1,195,873-1,196,318; 446 bp)
Authors: Knyazeva A.S., Yunusova A.M., 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 5% modal chromosome number 46
Pluripotency: pluripotency demonstrated in embryoid body formation test
Additional characteristics:
Species control: cytogenetic
Cryoconservation passage: 19
Area of application: studies of HARsv2_1747 deletion, regulatory sequences in the *CNTN6* gene, mental retardation

Source
Species: *Homo sapiens*
Tissue: fibroblasts
Date: 08.12.2022

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 20 ng/ml
Cell culture conditions: 37°C, 5% CO_2
Passage protocol: manual passage with the ratio 1:5 - 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-H7.2

Catalogue number: HSPS00112
Name: iTAF1-36-H7.2
Description: human iPSCs obtained from fibroblasts of a conditionally healthy donor, introduced homozygous deletion of HARsv2_1747 in the *CNTN6* gene (GRCh38/hg38 del3: 1,195,873-1,196,314; 442 bp)
Authors: Knyazeva A.S., Yunusova A.M., 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 10% modal chromosome number 46
Pluripotency: pluripotency demonstrated in embryoid body formation test
Additional characteristics:
Species control: cytogenetic
Cryoconservation passage: 6
Area of application: studies of HARsv2_1747 deletion, regulatory sequences in the *CNTN6* gene, mental retardation

Source
Species: *Homo sapiens*
Tissue: fibroblasts
Date: 08.12.2022

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 20 ng/ml
Cell culture conditions: 37°C, 5% CO_2
Passage protocol: manual passage with the ratio 1:5 - 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:

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 (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 THKI1

Catalogue number: TAHE00108
Name: THKI1
Description: the protist *Thraustochytrium kinnei* 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: 8
Area of application: biotechnology, fatty acid production, study of the Labyrinthulea life cycle

Source
Species: *Thraustochytrium kinnei*
Tissue:
Date: 13.02.2025

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