# Certificate of Analysis (CoA)
# for induced Pluripotent Stem Cells

***This product is for research only***

| Cell Line Name | BIONi010-C-55 | Batch / Lot Number | P001 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Reprogramming Method | Non-integrating episomal vector | | |
| Genetic Modification | Gene knock-in of mCherry- and EGFP-reporter | | |
| Passage Number | 39 | Cell number / vial | 2-3x10E6 |
| Culture Matrix | Matrigel™ / Geltrex™ | Culture Medium | mTeSR™-plus |
| $O_2$ Concentration | 21% | $CO_2$ Concentration | 5% |
| Passaging Method | EDTA | Additional Culture Information | None |
| Cryopreservation Medium | 40% FBS*/ 50% medium / 10% DMSO<br>*Serum of Zone 1 origin | | |
| Recommendation for thawing | Recommended thaw into 60mm plate(s)<br>Refer to cell line user protocols for further guidance at www.EBiSC.org | | |
| Additional Comments | Typical recovery after thaw, typical growth to confluency | | |

Please see https://cells.ebisc.org/ for further information on Quality Control and characterisation applied to lines released by EBiSC. The following standard testing criteria have been determined within EBiSC, prior to release of this product:

| Test | Assay | Acceptance Criteria | Result |
|---|---|---|---|
| **Sterility** | Inoculation for microbiological growth | Not Detected | Pass |
| | Mycoplasma | Not Detected | Pass |
| | Virology<br>(HBV, HCV, HIV1, HIV2) | Not Detected | Absence of viral pathogens in parental cell line |
| **Cell Line Identity** | STR / Fingerprinting | 85% match to donor<br>Sex match to donor | Allele data recorded and available upon request. First profile recorded for cell line, match to donor. |
| **Viability** | Visual Assessment | Growth to confluence post-thaw | Acceptable |
| **Phenotype** | Continuous visual assessment of iPSC colony morphology | Recorded | Typical PSC colonies with low differentiation levels |

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| | Flow Cytometry | SSEA-4 > 70% +<br>TRA-1-60 > 70% +<br>SSEA-1 < 10% +<br>POU5F1 > 70% + | Pass |
| **Differentiation Potential** | Trilineage differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers | Endoderm : Pass<br>Mesoderm : Pass<br>Ectoderm : Pass |
| **Genomic Stability** | G-Banding<br>(10- 20 successful karyotypes recorded) | Sex match to donor. | No chromosomal abnormalities detected |
| **Genetic Modification** | Sanger sequencing for gene TNNI1 and TNNI3 | Match to reported modification | Pass |

Additional guidance on storage, safety and usage can be found in the EBiSC Technical Information.

**Approved CoA** **Signature** Jochen Schmidt **Date** Digital unterschrieben von Jochen Schmidt
Datum: 2025.05.14 14:49:25 +02'00'