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

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

| Cell Line Name | SIGi001-A-15 | Batch / Lot Number | P001 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Reprogramming Method | Integrating Retrovirus (KLF4, MYC, POU5F1, SOX2) | | |
| Genetic Modification | Transgene expression Dox inducible NGN2 (CRISPR-Cas9)<br><br>Isogenic modification MAPT<br>(EX10 P301, homozygous; EX10 + 16 bp = C, homozygous) | | |
| Passage Number | 27 | Cell number / vial | 1-2 x10E6 |
| Culture Matrix | Matrigel™ | Culture Medium | mTeSR™-1 |
| $O_2$ Concentration | 21% | $CO_2$ Concentration | 5% |
| Passaging Method | EDTA | Additional Culture Information | Rho kinase inhibitor used at thaw |
| Cryopreservation Medium | 50% mTeSR1, 40% FCS*, 10% DMSO<br>*Serum of Zone 1 origin | | |
| Recommendation for thawing | Recommended thaw into 60mm plates<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>(HIV1, HIV2, HBV, HCV) | Not Detected | Absence of viral pathogens in other cell line clone from same donor |
| **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 |

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|---|---|---|---|
| **Phenotype** | Continuous visual assessment of iPSC colony morphology | Recorded | Typical PSC colonies with low to medium differentiation levels |
| | Flow Cytometry | SSEA-4 > 70% positive<br>SSEA-1 < 10% positive<br>POU5F1 > 70% positive | Pass |
| **Differentiation Potential** | Trilineage differentiation and flow cytometry 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 at locus MAPT 17q21.31<br><br>Induction of transgene NGN2 | Match to reported modification<br><br>Match to reported modification | Pass<br><br>Pass |

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

**Approved CoA** **Signature** Anja Germann Digital unterschrieben von Anja Germann Datum: 2024.01.18 11:49:28 +01'00' **Date** _____