Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

Cell Line Name	SIGi001-A-4	Batch / Lot Number	M001

Reprogramming Method	Integrating retrovirus (POU5F1, SOX2, KLF4, MYC)		
Genetic Modification	Isogenic modification MAPT (EX10 P301PL, heterozygous; EX10 + 16bp = C, homozygous)		
Passage Number	34	Cell number / vial	2,3x10E6
Culture Matrix	Matrigel™ / Geltrex™	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	40% FBS*/ 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 60mm plate(s) 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 (HBV, HCV, HIV1, HIV2)	Not Detected	Pass by depositor
Cell Line Identity	STR / Fingerprinting	85% match to donor Sex match to donor	Allele data recorded and available upon request. 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 to medium differentiation levels
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass

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Test	Assay	Acceptance Criteria	Result
Clearance of Reprogramming Factors	qPCR	Not detected	Silenced
Differentiation Potential	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Pass Mesoderm : Pass Ectoderm : Pass
Genomic Stability	BoBs	Not detected	No autosomal or sex chromosome aneuploidies detected
Genetic Modification	Sanger sequencing at locus MAPT 17q21.31	Match to reported modification	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 11:55:04 +01'00' **Date** _____