Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

EBiSC
European Bank for induced pluripotent Stem Cells

Cell Line Name	SIGi001-A-10	Batch / Lot Number	M001

Reprogramming Method	Integrating Retrovirus (KLF4, MYC, POU5F1, SOX2)		
Genetic Modification	Isogenic modification MAPT (EX10 P301S, heterozygous; EX10 + 16 bp = C -> T, homozygous)		
Passage Number	37	Cell number / vial	1.46x10E6
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 first passage
Cryopreservation Medium	40% FBS*/ 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 60mm plates Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	Low, slow 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 (HIV1, HIV2, HBV, HCV)	Not Detected	Confirmed 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	Low, slow recovery
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC with low to medium differentiation levels

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Test	Assay	Acceptance Criteria	Result
	Flow Cytometry	SSEA-4 > 70% positive TRA-1-60 > 70% positive SSEA-1 < 10% positive POU5F1 > 70% positive	Pass
Genetic Modification	Sanger sequencing at locus MAPT 17q21.31	Match to reported modification	Pass

Additional cell line characteristics have been determined by original reprogramming centres and have not been independently verified by EBiSC. Historical cell line data displayed here is accurate according to data provided by depositors on 24-AUG-2016.

Differentiation Potential	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Detected Mesoderm : Detected Ectoderm : Detected
Genomic Stability	Karyolite BoBs	Sex match to donor.	No chromosomal abnormalities detected

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

Approved CoA **Signature** _____ **Date** 29.04.2024