Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

Cell Line Name	SIGi001-A-18	Batch / Lot Number	P002

Reprogramming Method	Integrating Retrovirus (KLF4, MYC, POU5F1, SOX2)		
Genetic Modification	Isogenic modification MAPT (EX10 P301, homozygous; EX10 + 16 bp = C -> T, homozygous) Bi-Allelic MAPT HA-tag		
Passage Number	27	Cell number / vial	1-2x10E6
Culture Matrix	Matrigel™	Culture Medium	mTeSR™-1
O_2 Concentration	21%	CO_2 Concentration	5%
Passaging Method	Accutase	Additional Culture Information	Rho kinase inhibitor used at thaw
Cryopreservation Medium	50% mTeSR1, 40% FCS*, 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	slow recovery after thaw, slow 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	Absence of viral pathogens in other cell line clone from same donor
Cell Line Identity	STR / Fingerprinting	85% match to donor Sex match to donor	Allele data recorded and available upon request. First profile recorded for cell line, match to donor.

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Test	Assay	Acceptance Criteria	Result
Viability	Visual Assessment	Growth to confluence post-thaw	Low, slow recovery
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low differentiation levels
	Flow Cytometry	SSEA-4 > 70% positive SSEA-1 < 10% positive POU5F1 > 70% positive	Pass
Differentiation Potential	Trilineage differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm: Pass Mesoderm: Pass Ectoderm: Pass
Genomic Stability	G-Banding (10 -20 successful karyotypes recorded)	Sex match to donor.	No chromosomal abnormalities detected
Genetic Modification	Sanger sequencing at locus 17q21.31	Match to reported modification	Pass
	HA-tag on endogenous MAPT gene	Match to reported modification	Pass

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

Approved CoA Signature D. Smith Date 19.06.2024