

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

*This product is for research only*

Cell Line Name	SIGi001-A-12	Batch / Lot Number	M001
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Reprogramming Method	Integrating Retrovirus (KLF4, MYC, POU5F1, SOX2)		
Genetic Modification	Isogenic modification MAPT (EX10 P301, homozygous; EX10 + 16 bp = C -> T, homozygous)		
Passage Number	31	Cell number / vial	2x10E6
Culture Matrix	Matrigel™	Culture Medium	mTeSR™-1
O <sub>2</sub> Concentration	21%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rho kinase inhibitor used at thaw
Cryopreservation Medium	Cryostor		
Recommendation for thawing	Recommended thaw into 60mm plates Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a>		
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 (HIV1, HIV2) & (HBV, HCV)	Not Detected	Confirmed pass by depositor & Absence of viral pathogens in other lines 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.
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable

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Test	Assay	Acceptance Criteria	Result
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low differentiation levels
	Flow Cytometry	SSEA-4 > 70% positive TRA-1-60 > 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 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

*[Handwritten Signature]*

Date

*24.01.2024*

[www.EBiSC.org](http://www.EBiSC.org)



In case of queries, please get in touch via [Contact@EBiSC.org](mailto:Contact@EBiSC.org)

SIGi001-A-12.M001.CoA.v3