Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

Cell Line Name	BIONi010-C-25	Batch / Lot Number	M001

Reprogramming Method	Sendai CytoTune™ 2.0 (POU5F1, SOX2, cMYC, and KLF4)		
Genetic Modification	CRISPR-associated (CRISPR/Cas) System TREM2 KO (heterozygous)		
Passage Number	32	Cell number / vial	2x10E6
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	Cryostor CS10		
Recommendation for thawing	Recommended thaw into 60mm cell culture plates 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	Confirmed Pass by depositor
Cell Line Identity	STR / Fingerprinting	85% match to donor Sex match to donor	Allele data recorded and available upon request. Pass
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low 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
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	Sex match to donor. 20 successful karyotypes recorded.	No chromosomal abnormalities detected
Genetic Modification	Sanger sequencing at locus 6p21.1	Match to reported modification	Pass; Heterozygous knockout in one allel of exon 1 of TREM2

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

Approved CoA Signature _____ Date 05.04.2024