

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66540359

Cell Line Name	SIGi001-A-11	Batch Number	M001
Donor ID	IPSC0028		
Tissue of Origin	Epithelium	Phenotype of Donor	Unaffected
Cell Line Disease Association	Progressive supranuclear palsy, Corticobasal degeneration, Frontotemporal dementia and parkinsonism linked to chromosome 17	Sex	Female
Gene Editing Method	Zinc Finger Nuclease	Gene Editing Target	17q21.31
Type of Modification	Isogenic Modification	Parental Line	SIGi001-A
Details of Gene Edit	P301S+IVS10+16 C>T		
Reprogramming Method	Integrating Retrovirus (POU5F1, KLF4, SOX2, MYC)		
Passage Number	Passage 37	Cell number / vial	2.46 x 10 ⁶
Culture Matrix	Geltrex/Matrigel	Culture Medium	mTeSR™ 1
O ₂ Concentration	21%	CO ₂ Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Use of ROCKi at first passage recommended
Cryopreservation Medium	40% FBS* / 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 2 wells of a 6-well plate or per 10cm ² Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	Typical recovery after thaw typical growth to confluence		
Associated Publications	N/A		

Please see www.EBiSC.org for further information on Quality Control 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

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Test	Assay	Acceptance Criteria	Result
Sterility	qPCR for Mycoplasma	Not Detected	Pass
Cell Line Identity	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Gender match to donor
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low to medium differentiation levels
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass
Differentiation Potential	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Detected Mesoderm : Detected Ectoderm : Detected

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 12-MAY-2017

Test	Assay	Result
Sterility	Virology (HBV, HCV, HIV1, HIV2)	Negative
Karyotype	G-Banding	17/20 46,XX. 2/20 47,XX,+12. 1/20 48,XXX,+22
	KaryoLite BoBs	No autosomal or sex chromosome aneuploidies detected
Clearance of Reprogramming Factors	qPCR	Reprogramming factors silenced
Genotyping	Sequencing of target locus	MAPT P301S: Monoallelic IVS10+16 C>T: Biallelic Mutations detected

The following guidance can be found in the Instructions for Use	
Intended use	Expiry Date
Product Format	Recommended storage conditions
Volume	Hazardous Information

Approved CoA

Signature



Date

16 May 2017