Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

EBiSC
European Bank for induced pluripotent Stem Cells

ECACC Catalogue No: 66540169

Cell Line Name	EDi001-A-4	Batch Number	P001
Donor ID	AST Corrected Name: AST23		
Tissue of Origin	Dermal fibroblast	Phenotype of Donor	Parkinson's Disease
Cell Line Disease Association	Parkinson's Disease	Sex	Female
Gene Editing Method	CRISPR/Cas9	Gene Editing Target	SNCA
Type of Modification	Isogenic Modification	Parental Line	EDi001-A
Details of Gene Edit	SCNA triplication has been gene edited to become *putatively* normal		
Reprogramming Method	Integrating Retrovirus (POU5F1, SOX2, KLF4 and MYC)		
Passage Number	Passage 57	Cell number / vial	1.73×10^6
Culture Matrix	Geltrex / Matrigel	Culture Medium	mTeSR™ 1
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	ROCK inhibitor required for successful growth. Previously cultured using Laminin 521 and E8
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 confluency		
Associated Publications	NA		

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
	qPCR for Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Pass

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In case of queries, please contact culturecollections.technical@phe.gov.uk. European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684

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Test	Assay	Acceptance Criteria	Result
Cell Line Identity	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. 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 differentiation levels
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% +	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 06-JUL-2017

Test	Assay	Result
Karyotype	G-Banding	28/30 diploid female karyotype 46,XX 1/30 45,XX,-3 1/30 45,XX,-14
Genotyping	Sequencing of SNCA gene	Two deletions were detected, both of which disrupt the first ATG start site. This indicates 2 alleles were putatively knocked out, and 2 alleles remain
Silencing of Reprogramming Vector	qPCR for retroviral transgenes	Reprogramming factors silenced

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** Jane Embury **Date** 07 July 2017

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