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: 66540608

Cell Line Name	PFIZi023-A	Batch Number	M001
Donor ID	OD017		
Disease Association	Dravet Syndrome	Phenotype of Donor	Affected
Tissue of Origin	PBMC (Erythroblast)	Sex	Female
Reprogramming Method	Non-integrating Sendai Virus (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 11	Cell number / vial	$2.0x10^6$
Culture Matrix	Geltrex / Matrigel	Culture Medium	mTeSR™1
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
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	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
	qPCR for Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Pass
Cell Line Identity	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Profile 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

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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
Phenotype	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 09-MAR-2018

Test	Assay	Result
Genetic Defect	Sanger Sequencing of GPR56 affected location	Mutation c.944_945dupTT: p.Val316LeufsX8 in exon 8 and c.1508 T>C: pLeu503Pro: in exon 12 in the GPR56 gene both confirmed
Karyotype	G-banding 20 metaphase spreads	13/15 diploid female karyotype (46,XX) 1/15 45,XX,-4 1/15 45,XX,-21
Clearance of Reprogramming Factors	qPCR for Sendai Backbone	Not 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** 09 Mar 2018

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