

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

*This product is for research only*

ECACC Catalogue No: 66540641

Cell Line Name	PFIZI030-A	Batch Number	M001
Donor ID	OD016		
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 13	Cell number / vial	1.5x10 <sup>6</sup>
Culture Matrix	Geltrex / Matrigel	Culture Medium	mTeSR™1
O <sub>2</sub> Concentration	20%	CO <sub>2</sub> 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 <sup>2</sup> Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a>		
Additional Comments	Slow recovery after thaw, slow growth to confluency		
Associated Publications	N/A		

Please see [www.EBiSC.org](http://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
<b>Sterility</b>	Inoculation for microbiological growth	Not Detected	Pass
	qPCR for Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Pass
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Profile match to donor
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Low, slow recovery
<b>Phenotype</b>	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low differentiation levels

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Test	Assay	Acceptance Criteria	Result
<b>Phenotype</b>	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass
<b>Differentiation Potential</b>	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
<b>Genetic Defect</b>	Sanger Sequencing of NPR2 affected location	Mutation p.Thr297Met (ACG>ATG): c.890 C>T in exon 3 confirmed
<b>Karyotype</b>	G-Banding 20 metaphase spreads	20/20 diploid female karyotype (46,XX)
<b>Clearance of Reprogramming Factors</b>	qPCR for Sendai virus	Not detected

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

Approved CoA

Signature  Date 09 mar 2018



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