

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

*This product is for research only*

ECACC Catalogue No: 66540485

Cell Line Name	UKKI023-A	Batch Number	P001
Donor ID	NP0126		
Disease Association	Familial Long QT Syndrome	Phenotype of Donor	Affected
Tissue of Origin	PBMC	Sex	Male
Reprogramming Method	Non-integrating Sendai virus (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 35	Cell number / vial	2.1x10 <sup>6</sup>
Culture Matrix	Vitronectin	Culture Medium	Essential 8™/Essential 8 Flex™
O <sub>2</sub> Concentration	20%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	90% medium / 10% DMSO		
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	Typical recovery after thaw, typical 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
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Gender match to donor
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Acceptable
<b>Phenotype</b>	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low to medium differentiation levels

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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 22-MAY-2017

Test	Assay	Result
<b>Phenotype</b>	Flow Cytometry	Positive Expression of CD90, SSEA-1, SSEA-4 and TRA-1-80
	Immunocyto-chemistry	Positive expression of TRA-1-80, POU5F1, Nanog and SSEA-4
<b>Karyotype</b>	SNP Analysis (OmniExpress Exome Chip)	No larger chromosomal aberrations observed
<b>Cell Line Identity</b>	PowerPlex 16 STR Genotyping System	Match to donor profile
<b>Clearance of Reprogramming Factors</b>	PCR for Sendai virus	Not detected
<b>Pluripotency</b>	PCR	Pluripotency markers detected
<b>Differentiation Potential</b>	Trilineage differentiation	Differentiation to endoderm, ectoderm and mesoderm detected
<b>Sterility</b>	Virology (HBV, HCV, HIV1, HIV2) PCR	Not detected
<b>Genetic Lesion</b>	DNA sequencing hERG affected location	Heterozygous Mutation hERG: c.1591 C>T; Arg531Trp confirmed

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

*Jane Embury*

Date

*26 Feb 2018*