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: 66540479

Cell Line Name	UKKi018-B	Batch Number	P001
Donor ID	NP0080		
Disease Association	Familial Long QT Syndrome	Phenotype of Donor	Affected
Tissue of Origin	PBMC	Sex	Female
Reprogramming Method	Non-integrating Sendai Virus (KLF4, MYC, POU5F1, SOX2)		
Passage Number	Passage 37	Cell number / vial	$1.32x10^6$
Culture Matrix	Vitronectin	Culture Medium	Essential 8™/Essential 8 Flex™
O_2 Concentration	20%	CO_2 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 $10cm^2$ 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
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 differentiation levels

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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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 25-MAY-2017

Test	Assay	Result
Phenotype	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
Karyotype	SNP Analysis (OmniExpress Exome Chip)	No larger chromosomal aberrations observed
Cell Line Identity	PowerPlex 16 STR Genotyping System	Match to donor profile
Clearance of Reprogramming Factors	PCR for Sendai virus	Not detected
Pluripotency	PCR	Pluripotency markers detected
Differentiation Potential	Trilineage differentiation	Differentiation to endoderm, ectoderm and mesoderm detected
Sterility	Virology (HBV, HCV, HIV1, HIV2) PCR	Not detected
Genetic Lesion	DNA sequencing hERG affected location	Mutation hERG: c.173A>G; Glu58Gly confirmed

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** 23 feb 2018

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