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: 66540013

Cell Line Name	UKKi007-B	Batch Number	P001
Donor ID	NP0014		
Disease Association	Catecholaminergic Polymorphic Ventricular Tachycardia type 1	Phenotype of Donor	Affected
Tissue of Origin	Dermal Fibroblasts	Sex	Female
Reprogramming Method	Retroviral Vector (POU5F1, SOX2, KLF4 and c-MYC)		
Passage Number	Passage 33	Cell number / vial	0.9 x 10^6
Culture Matrix	Vitronectin	Culture Medium	E8
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	90% E8 Medium +10% DMSO		
Recommendation for thawing	Recommended thaw into 1 well of a 6-well plate or per $10cm^2$ Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	Slow recovery after thaw, typical growth to confluency		
Associated Publications	PubMed-ID 22178870		

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
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

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: 66540013

Test	Assay	Acceptance Criteria	Result
	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 25-JUN-2015

Test	Assay	Result
Phenotype	Immunocytochemistry	Positive expression of NANOG, SSEA4, POU5F1 and TRA1-81
	Flow Cytometry	Positive expression of TRA-1-81 and SSEA-4
Karyotype	Molecular karyotyping using OmniExpress Exome Chip	No large chromosomal aberrations could be identified
Cell Line Identity	Microsatellite analysis	Match to donor tissue
Clearance of Reprogramming Factors	Endpoint PCR of retrovirally encoded reprogramming factors	Expression of reprogramming factors not detected
Differentiation Potential	Directed differentiation	Production of cardiomyocytes
Genetic Defect	DNA Sequencing	Confirmation of Phe2483Ile mutation in the RYR2 gene

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 Ewing **Date** 03 feb 2016

www.EBiSC.eu

imi efpia

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