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: 66540032

Cell Line Name	UKKi009-B	Batch Number	P001
Donor ID	NP0011		
Disease Association	Long QT (LQT) Syndrome Type 2	Phenotype of Donor	Affected
Tissue of Origin	Dermal fibroblasts	Sex	Female
Reprogramming Method	Integrating transposon (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 30	Cell number / vial	1.7×10^6
Culture Matrix	Vitronectin	Culture Medium	E8
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	NA
Cryopreservation Medium	40% FBS*/ 50% E8 / 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	PubMed-ID: 24349418		

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 (HIV2)	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 to medium level differentiation

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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
	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 26-OCT-2015

Test	Assay	Result
Genetic Defect	DNA sequencing	Confirmation of mutation in KCNH2 gene
Phenotype	Flow cytometry	Positive for markers TRA-1-80, SSEA4
	ICC	Positive for markers TRA-1-80, NANOG, POU5F1, SSEA4
Karyotype	SNP	No gross chromosomal abnormalities have been identified
Cell Line Identity	STR analysis	Match to donor fibroblasts
Clearance of Reprogramming Factors	RT-PCR	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** 11 Apr 2016

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