

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only



ECACC Catalogue No: 66540019

Cell Line Name	UKKi012-A	Batch Number	P001
Donor ID	NP0041		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Dermal Fibroblasts	Sex	Male
Reprogramming Method	Episomal vector (POU5F1, SOX2, KLF4 and L-MYC, sh-p53)		
Passage Number	Passage 20	Cell number / vial	0.87 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	Typical recovery after thaw, typical growth cycle		
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
	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
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% +	Pass



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
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 17-JUL-2015

Test	Assay	Result
Phenotype	Immunocytochemistry	Positive Expression of NANOG, POU5F1, SSEA-4 and TRA-1-80
	Flow Cytometry	Positive expression of TRA-1-80 and SSEA-4
Karyotype	Molecular karyotyping using OmniExpress Exome Chip	No large chromosomal aberration detected
Cell Line Identity	SNP genotyping using OmniExpress Exome Chip	Match to donor tissue
Clearance of Reprogramming Factors	Endpoint PCR of episomal encoded reprogramming factors	Expression of reprogramming factors not detected
Differentiation Potential	Spontaneous differentiation	Differentiation to endoderm, ectoderm and mesoderm detected
Genetic Defect	DNA Sequencing	Wild-type, no mutations in RYR2 and SCN5A genes 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

03 feb 2016

www.EBiSC.eu



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