

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

*This product is for research only*

ECACC Catalogue No: 66540010

Cell Line Name	UKKi011-A	Batch Number	P001
Donor ID	NP0040		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Dermal Fibroblasts	Sex	Male
Reprogramming Method	Episomal Reprogramming (POU5F1, SOX2, KLF4 and L-MYC, sh-p53)		
Passage Number	Passage 32	Cell number / vial	1.5 x 10 <sup>6</sup>
Culture Matrix	Vitronectin	Culture Medium	E8
O <sub>2</sub> Concentration	20%	CO <sub>2</sub> 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 <sup>2</sup>		
Additional Comments	Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a> Typical recovery after thaw. Passaging using a split ratio exceeding 1:4 may help achieve mature, compact colonies with a typical 4 day growth cycle		
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
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Pass
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request
<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 differentiation levels

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Test	Assay	Acceptance Criteria	Result
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% +	Pass
<b>Differentiation Potential</b>	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 22-JUL-2015

Test	Assay	Result
<b>Phenotype</b>	Immunocytochemistry	Positive Expression of NANOG, POU5F1, SSEA-4 and TRA-1-80
	SNP Genotyping (OmniExpress Exome Chip)	Match to donor tissue
<b>Karyotype</b>	Molecular karyotyping using OmniExpress Exome Chip	46, XY
<b>Cell Line Identity</b>	SNP Genotyping (OmniExpress Exome Chip)	Match to donor tissue
<b>Clearance of Reprogramming Factors</b>	qRT-PCR for EBNA	Episomal vector cassette absent
<b>Differentiation Potential</b>	Spontaneous EB differentiation - Mesoderm	Robust cardiac differentiation

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 Luby*

Date

*03 Feb 2016*



In case of queries, please contact [culturecollections.technical@phe.gov.uk](mailto:culturecollections.technical@phe.gov.uk). European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684