

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

*This product is for research only*



ECACC Catalogue No: 66540001

Cell Line Name	UKKi007-A Alternative name: UKK007Ai	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 36	Cell number / vial	0.9 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> Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a>		
Additional Comments	Typical recovery after thaw, typical growth cycle		
Associated Publications	PubMed-ID 22178870		

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

[www.EBiSC.eu](http://www.EBiSC.eu)



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

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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 25-MAY-2015

Test	Assay	Result
<b>Phenotype</b>	Immunocytochemistry	Positive expression of POU5F1, SSEA-3, TRA-1-60 and TRA-1-81
	Flow Cytometry	Positive expression of TRA-1-81 and SSEA-4
<b>Karyotype</b>	Molecular karyotyping using OmniExpress Exome Chip	No large chromosomal aberrations could be identified; some copy number variations (CNV) are present
<b>Cell Line Identity</b>	STR	Match to donor tissue
<b>Clearance of Reprogramming Factors</b>	Endpoint PCR of retrovirally encoded reprogramming factors	Expression of reprogramming factors not detected
<b>Differentiation Potential</b>	Directed differentiation	Production of cardiomyocytes
<b>Genetic Defect</b>	DNA Sequencing	Confirmation of Phe2483Ile Mutation in the RYR2 gene

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  Date 03 feb 2016



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