

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

*This product is for research only*

ECACC Catalogue No: 66540484

Cell Line Name	UKKi022-A	Batch Number	P001
Donor ID	NP0106		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Fibroblast of dermis	Sex	Female
Reprogramming Method	Non-integrating Episomal		
Passage Number	Passage 25	Cell number / vial	0.87x10 <sup>6</sup>
Culture Matrix	Vitronectin	Culture Medium	Essential 8™
O <sub>2</sub> Concentration	20%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	90% medium / 10% DMSO		
Recommendation for thawing	Recommended thaw into 2 wells of a 12-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	Poor recovery after thaw, slow growth to confluency		
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
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Gender match to donor
<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 to medium differentiation levels

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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 06-MAR-2018

Test	Assay	Result
<b>Phenotype</b>	Flow Cytometry	Positive expression of TRA-1-80, SSEA4, CD90 and SSEA1
	Immunocyto-chemistry	Positive expression of POU5F1, SSEA4, TRA-1-80 and NANOG-AF555
<b>Karyotype</b>	SNP Analysis (OmniExpress Exome Chip)	Normal
<b>Cell Line Identity</b>	PowerPlex 16 STR Genotyping System	Match to donor profile
<b>Clearance of Reprogramming Factors</b>	PCR for Episomal backbone	Absence of episomal cassette in genomic DNA
<b>Pluripotency</b>	PCR	Pluripotency markers detected
<b>Differentiation Potential</b>	IHC-Staining	Differentiation to endoderm, ectoderm and mesoderm detected
<b>Sterility</b>	Virology (HBV, HCV, HIV1, HIV2) PCR	Not detected
	Microbial Growth	Not detected
	Mycoplasma (MycoAlert Plus)	Not detected

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 26 July 18



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