

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

*This product is for research only*

ECACC Catalogue No: 66540008

Cell Line Name	UKBi005-A	Batch Number	M001
Donor ID	LB-C-31f		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Dermal Fibroblasts	Sex	Female
Reprogramming Method	Retroviral vector (POU5F1, SOX2, KLF4 and MYC)		
Passage Number	Passage 38	Cell number / vial	2.675 x 10 <sup>6</sup>
Culture Matrix	Matrigel/Geltrex	Culture Medium	mTeSR-1
O <sub>2</sub> Concentration	20%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	90% mTeSR-1 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	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. 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 differentiation levels

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Test	Assay	Acceptance Criteria	Result
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 >70% +	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
<b>Karyology</b>	G-Banding	>75% normal spreads	Modal karyotype in 25 cells, five anomalous cells noted

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 27-MAY-2015

Test	Assay	Result
<b>Phenotype</b>	Immunocytochemistry	Positive expression of POU5F1, SSEA-3, TRA-1-60 and TRA-1-81
<b>Karyotype</b>	SNP Karyotyping	Normal
<b>Cell Line Identity</b>	STR	Match to donor tissue
<b>Clearance of Reprogramming Factors</b>	qPCR	No expression of reprogramming factors
<b>Differentiation Potential</b>	Teratoma Formation	Tissues of all 3 germ layers formed
	Directed differentiation	Production of It-NES cells

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



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