Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

EBiSC
European Bank for induced pluripotent Stem Cells

ECACC Catalogue No: 66540005

Cell Line Name	UKBi002-A Alternative name: UKB002Ai	Batch Number	P001
Donor ID	LB-C2-36m		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Skin Fibroblasts	Sex	Male
Reprogramming Method	Retroviral vector (POU5F1, SOX2, KLF4 and MYC)		
Passage Number	Passage 15	Cell number / vial	1 - 2 x 10^6
Culture Matrix	Matrigel/Geltrex	Culture Medium	mTeSR-1
O_2 Concentration	20%	CO_2 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 $10cm^2$ Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	A higher split ratio e.g. 1:5 is recommended to avoid cells rapidly reaching confluency. To prevent spontaneous differentiation, do not allow confluency to exceed 70%		
Associated Publications	PubMed-ID 22113611		

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. Match to donor
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable

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
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Morphology variable (ranging from iPSC emergence to Typical iPSC colonies) and dependent on TC practices. Differentiation Low to Medium
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% +	Pass
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 20-APR-2015

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

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

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