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: 66540048

Cell Line Name	RCi001-B	Batch Number	P001
Donor ID	EM3		
Disease Association	Familial Erythromelalgia	Phenotype of Donor	Affected
Tissue of Origin	Blood PBMCs	Sex	Male
Reprogramming Method	Non-integrating Sendai virus (POU5F1, SOX2, KLF4, C-MYC)		
Passage Number	Passage 14	Cell number / vial	2.0×10^6
Culture Matrix	Geltrex/Matrigel	Culture Medium	mTeSR-1
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	40% FBS*/ 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 2 wells of a 6-well plate or per $10cm^2$ Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	Typical recovery after thaw, typical growth to confluency		
Associated Publications	N/A		

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
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Emergence of iPSC colonies with medium differentiation levels

www.EBiSC.eu

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
	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 29-JAN-16

Test	Assay	Result
Phenotype	Flow Cytometry	Positive Expression of Tra-1-60, POU5F1, SSEA-4, low expression of SSEA-1
Karyotype	G-Banding	Acceptable. Modal karyotype in 14 cells showed normal male chromosome complement and banding pattern
	BoBs	No autosomal or sex chromosome aneuploidies detected
Clearance of Reprogramming Factors	qPCR for Sendai Virus Clearance	Detected

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** Jane Lucy **Date** 01 Apr 2016

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