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: 66540020

Cell Line Name	UNEWi005-A	Batch Number	P001
Donor ID	F118		
Disease Association	Retinitis pigmentosa	Phenotype of Donor	Affected
Tissue of Origin	Dermal fibroblast	Sex	Male
Reprogramming Method	Sendai Virus (SOX2, KLF4, MYC and POU5F1)		
Passage Number	Passage 26	Cell number / vial	1-2x10^6
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	Cryostor		
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 Higher split ratios of 1:6 are preferable to allow cell colonies to compact		
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

www.EBiSC.eu

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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	Typical iPSC morphology, however colonies tended to have spiked edges and cells were not compact. Low level of differentiation
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	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-2016

Test	Assay	Result
Genetic Defect	Sequencing	Confirmation of Mutation
Phenotype	Flow Cytometry	Positive for markers TRA-1-60, SSEA4, NANOG, low expression of SSEA1
Karyotype	Cytosnp	No Clinically significant imbalance was detected
Pluripotency	Immunocytochemistry EB Spontaneous trilineage differentiation.	Formed all germ lineages
Clearance of Reprogramming Factors	RT-PCR for Sendai Virus.	Clearance of Sendai Virus

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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