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: 66540385

Cell Line Name	UOXFi001-B	Batch Number	M001
Donor ID	MK071		
Disease Association	Parkinson's Disease	Phenotype of Donor	Affected
Tissue of Origin	Fibroblast of dermis	Sex	Female
Reprogramming Method	Integrating Retrovirus (POU5F1, SOX2, KLF4, MYC, NANOG)		
Passage Number	Passage 25	Cell number / vial	$2x10^6$
Culture Matrix	Matrigel/Geltrex	Culture Medium	mTeSR™1
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rock inhibitor required for 24 hours post thaw.
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	PubMed: 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. Gender 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	Typical iPSC colonies with low differentiation levels
	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
Karyology	G-Banding	20 metaphase spreads	9/11 diploid female karyotype (46,XX) 1/11 45,XX,-14 1/11 40,XX,-12,-13,15,-15,-17,-22
	KaryoLite BoBs	No autosomal or sex chromosome aneuploidies detected	No autosomal or sex chromosome aneuploidies 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 12-DEC-2016

Test	Assay	Result
Cell Line Identity	SNP	Match to donor fibroblast
Stemcell Marker Expression	Pluritest	Pass
Clearance of Reprogramming Factors	qPCR for Retroviral Transgenes	Transgenes silenced

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 Embury **Date** 13 feb 2018

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