

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66540069

Cell Line Name	ESi004-A	Batch Number	P001
Donor ID	hPC0934		
Disease Association	Gaucher's disease	Phenotype of Donor	Affected
Tissue of Origin	Human Dermal Fibroblasts	Sex	Female
Reprogramming Method	Non-integrating Lentivirus expressing CRE Recombinase (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 33	Cell number / vial	1-2 x 10 ⁶
Culture Matrix	Matrigel / Geltrex	Culture Medium	mTeSR™ 1
O ₂ Concentration	21%	CO ₂ Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	40% FBS* / 50% mTeSR / 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	Slow 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. Profile match to donor
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC morphology with low level of differentiation

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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 09-NOV-2015

Test	Assay	Result
Genetic Defect	Sequencing of PCR product	It is a compound heterozygote mutation in the GBA1 gen. In one allele there is 721 G>A, and in the other 1448 T<C.
Phenotype	Immunocytochemistry	Positive for NANOG, OCT-04, TRA-1-81, and SSEA-3.
Karyotype	G-Banding	Diploid 47, XX, der(12)t(12;?)(q24;?)+mar
Clearance of Reprogramming Factors	qPCR	Lentivirus expressing CRE Recombinase (POU5F1, SOX2, KLF4, MYC) not detected
Differentiation Potential	EB trilineage differentiation in vitro and in vivo using immunocytochemistry and immunohistochemistry	Endoderm : Detected Mesoderm : Detected Ectoderm : 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

Date

26 Apr 2016

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