

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66540064

Cell Line Name	ESi003-A	Batch Number	P001
Donor ID	hPC1014		
Disease Association	Creatine Transporter Deficiency	Phenotype of Donor	Affected
Tissue of Origin	Fibroblast	Sex	Male
Reprogramming Method	Retroviral Vector (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 22	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 cycle		
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
Phenotype	Immunocytochemistry	Positive for NANOG, OCT-4, TRA-1-81 and SSEA-3
Karyotype	G-Banding	Diploid (46, XX)
Clearance of Reprogramming Factors	Q-RT-PCR and immunofluorescence	Silencing of Retroviral Vector (POU5F1, SOX2, KLF4, MYC)
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

Jane Lutz

Date

26 April 2016



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