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: 66540371

Cell Line Name	BIONi010-C-9	Batch Number	P002
Donor ID	CC-2511		
Tissue of Origin	Fibroblast of dermis	Phenotype of Donor	Unaffected Control
Cell Line Disease Association	Alzheimer's disease	Sex	Male
Gene Editing Method	CRISPR/Cas-9	Gene Editing Target	Chr:19q13.41, CD33
Type of Modification	Gene knock-out	Parental Line	BIONi010-C
Details of Gene Edit	CD33 gene knocked out		
Reprogramming Method	Non-integrating Episomal (KLF4, Lin28, MYC, POU5F1, shP53 and SOX2)		
Passage Number	Passage 30	Cell number / vial	$1.5x10^6$
Culture Matrix	Matrigel/Geltrex	Culture Medium	Essential 8™
O_2 Concentration	18%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Cells previously cultured using ROCK inhibitor
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

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
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
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	Directed 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 14-SEP-2017

Test	Assay	Result
Karyotype	G-Banding	46,XY
Clearance of Gene Editing Plasmid	PCR for CRISPR plasmid	Not detected
Genotyping	Sequencing of target locus	CD33 gene knock-out confirmed

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 jan 2018

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