Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66540632

Cell Line Name	BIONi010-C-17	Batch / Lot Number	M001
Reprogramming Method	Non-integrating Episomal vector (POU5F1, SOX2, MYC, Lin28, shP53 and KLF4)		
Genetic Modification	CRISPR associated (CRISPR/Cas) System		
Passage Number	40	Cell number / vial	$3.98x10^5$
Culture Matrix	Matrigel™ / Geltrex™	Culture Medium	Essential 8™
O_2 Concentration	21%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rho kinase inhibitor used at thaw
Cryopreservation Medium	Cryostor®		
Recommendation for thawing	Recommended thaw into 2 well(s) 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		

Please see https://cells.ebisc.org/ for further information on Quality Control and characterisation 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
	Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Confirmed pass by depositor
Cell Line Identity	STR / Fingerprinting	N/A	Allele data recorded and available upon request. Match to donor
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

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
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass
Differentiation Potential	Directed differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm: Pass Mesoderm: Pass Ectoderm: Pass
Genomic Stability	G-Banding	Sex match to donor. 20 successful karyotypes recorded.	46, XY
Genetic Modification	Sanger sequencing at locus	Match to reported modification	TREM2: Gene knockout

Additional guidance on storage, safety and usage can be found in the EBiSC Technical Information.

Approved CoA **Signature** _____ **Date** 05/08/2022

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