Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

Cell Line Name	UKKi009-B	Batch / Lot Number	P001

Reprogramming Method	Integrating transposon (POU5F1, SOX2, MYC, and KLF4)		
Passage Number	30	Cell number / vial	1.7x10E6
Culture Matrix	Vitronectin	Culture Medium	Essential 8™
O_2 Concentration	20%	CO_2 Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	40% FBS*/ 50% E8 / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 2 well(s) of a 6-well plate or per 10cm² 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. Gender match to donor.
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low differentiation levels
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% +	Pass
Differentiation Potential	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Pass Mesoderm : Pass Ectoderm : Pass

In case of queries, please get in touch via Contact@EBiSC.org

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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 26-OCT-2015.

Test	Assay	Result
Genetic Defect	DNA sequencing	Confirmation of mutation in KCNH2 gene
Phenotype	Flow cytometry	Positive for markers TRA-1-80, SSEA4
	ICC	Positive for markers TRA-1-80, NANOG, POU5F1, SSEA4
Karyotype	SNP	No gross chromosomal abnormalities have been identified
Cell line Identity	STR analysis	Match to donor fibroblasts
Clearance of Reprogramming Factors	RT-PCR	Not detected

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

Approved CoA Signature _____ Date 07-05-2024