

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66540018

Cell Line Name	UKKi006-A Alternative: UKK006Ai	Batch Number	P001
Donor ID	NP0053		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Bone marrow-derived mesenchymal stromal cells (MSCs)	Sex	Female
Reprogramming Method	Retroviral Vector (POU5F1, SOX2, KLF4 and MYC)		
Passage Number	Passage 59	Cell number / vial	1.26 x 10 ⁶
Culture Matrix	Vitronectin	Culture Medium	E8
O ₂ Concentration	20%	CO ₂ Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	90% E8 / 10% DMSO		
Recommendation for thawing	Recommended thaw into 1 well 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 Colonies were able to become more compact when using a 1:5 split ratio rather than a 1:4 split ratio		
Associated Publications	PubMed ID: 23032973		

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. Gender match to donor
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Not typical iPSC colonies with low to medium levels of differentiation

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only



ECACC Catalogue No: 66540018

Test	Assay	Acceptance Criteria	Result
Phenotype	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 : 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-JUL-2015

Test	Assay	Result
Identity	STR	Match to donor tissue
Genetic Defect	Not Tested	This is a wild type iPSC and no disease associated mutations are expected
Morphology	Visual assessment (brightfield imaging of clusters and colonies post thaw)	Acceptable
Phenotype	Flow cytometry	Positive expression of TRA-1-81 and SSEA-4
	Immunocytochemistry	Positive expression of NANOG, POU5F1, SSEA4 and TRA-1-81
	Global mRNA profiling	Cell line profile identified as iPSC
	PluriTest	Cell line identified as iPSC
Karyotype	Molecular karyotyping using OmniExpress Exome Chip	Abnormality of chromosome 20 detected
Cell Line Identity	Directed differentiation	Differentiation to Mesoderm and Ectoderm detected
Clearance of Reprogramming Factors	Endpoint PCR of retrovirally encoded reprogramming factors	Expression of reprogramming factors not 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

07 June 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