

# Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

*This product is for research only*

ECACC Catalogue No: 66540165

Cell Line Name	UCLi004-C	Batch Number	M001
Donor ID	C9ORF72-NP60		
Disease Association	Amyotrophic Lateral Sclerosis/Frontotemporal Dementia	Phenotype of Donor	Affected
Tissue of Origin	Fibroblasts	Sex	Male
Reprogramming Method	Non-integrating Sendai virus (POU5F1, SOX2, KLF4, MYC)		
Passage Number	Passage 22	Cell number / vial	2.0 x 10 <sup>6</sup>
Culture Matrix	Geltrex/Matrigel	Culture Medium	E8
O <sub>2</sub> Concentration	21%	CO <sub>2</sub> 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 wells of a 6-well plate or per 10cm <sup>2</sup> Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a>		
Additional Comments	Low, slow recovery after thaw, typical growth to confluency Recommended split ratio 1:10 - 1:20 Colonies display an atypical spikey morphology		
Associated Publications	PubMed ID: N/A		

Please see [www.EBiSC.org](http://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
<b>Sterility</b>	Inoculation for microbiological growth	Not Detected	Pass
	qPCR for Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Pass
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Match to donor
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Acceptable
<b>Phenotype</b>	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low differentiation levels

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<b>Phenotype</b>	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass
<b>Differentiation Potential</b>	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 15-SEP-2016

Test	Assay	Result
<b>Karyotype</b>	Karyolite BoBs	No autosomal or sex chromosome aneuploidies detected
	G-Banding	Modal karyotype (in 17 cells), normal male chromosome complement and banding pattern. Three anomalous cells noted: one cell: 45, XY,-14 one cell: 45, XY,-18 one cell: 44, XY,-1,-12
<b>Clearance of Reprogramming Factors</b>	qPCR for Sendai virus	Not detected

The following guidance can be found in the Instructions for Use	
<b>Intended use</b>	<b>Expiry Date</b>
<b>Product Format</b>	<b>Recommended storage conditions</b>
<b>Volume</b>	<b>Hazardous Information</b>

Approved CoA

Signature



Date

12 Jan 2017