

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

*This product is for research only*

ECACC Catalogue No: 66540267

Cell Line Name	BIONi016-A	Batch Number	P001
Donor ID	H310715		
Disease Association	No Disease Association	Phenotype of Donor	Low Birth Weight
Tissue of Origin	Adipose tissue derived mesenchymal stem cell	Sex	Male
Reprogramming Method	Non-integrating Episomal (POU5F1, SOX2, MYC, KLF4 and LIN28)		
Passage Number	Passage 15	Cell number / vial	0.96 x 10 <sup>6</sup>
Culture Matrix	Matrigel/Geltrex	Culture Medium	Essential 8™
O <sub>2</sub> Concentration	5%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rocki for 24h post thaw
Cryopreservation Medium	40% FBS* / 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 1 well 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	Slow recovery after thaw, slow growth to confluency		
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
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Gender match to donor
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Low, slow recovery
<b>Phenotype</b>	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low differentiation levels

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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 10-MAY-2017

Test	Assay	Result
<b>Sterility</b>	Virology (HBV, HCV, HIV1, HIV2)	Pass
<b>Phenotype</b>	Flow Cytometry	TRA-1-81: 94.3%; OCT 4: 93.4%; SOX2: 96.9%; SSEA-1: 0.03%; SSEA-4: 96.6%
<b>Karyotype</b>	G-banding	46, XY
<b>Cell Line Identity</b>	STR	Match to donor
<b>Clearance of Reprogramming Factors</b>	QPCR for LIN28, SOX2 and OCT-4	Not Detected
<b>Directed Differentiation</b>	Flow Cytometry	Endoderm : Detected Mesoderm : Detected Ectoderm : 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

*[Handwritten signature]*

Date

*24 May 2017*



In case of queries, please contact [culturecollections.technical@phe.gov.uk](mailto:culturecollections.technical@phe.gov.uk). European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684