

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

*This product is for research only*

ECACC Catalogue No: 66540067

Cell Line Name	ESI002-A	Batch Number	P001
Donor ID	SP08		
Disease Association	Parkinson's disease	Phenotype of Donor	Affected
Tissue of Origin	Epidermal Keratinocytes	Sex	Female
Reprogramming Method	Retroviral Vector (POU5F1, KLF4, SOX2)		
Passage Number	Passage 17	Cell number / vial	1-2 x 10 <sup>6</sup>
Culture Matrix	Matrigel / Geltrex	Culture Medium	mTeSR™ 1
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% mTeSR / 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	Slow recovery after thaw, typical growth to confluency		
Associated Publications	PubMed ID: 22407749		

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. Profile 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 morphology with low level of differentiation

[www.EBiSC.eu](http://www.EBiSC.eu)



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

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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 09-NOV-2015

Test	Assay	Result
<b>Phenotype</b>	Immunocytochemistry	Positive for NANOG, OCT-4, Tra-1-81, and SSEA-3
<b>Karyotype</b>	G-Banding	Diploid (46, XX)
<b>Clearance of Reprogramming Factors</b>	qPCR	Silencing of Retroviral Vector (POU5F1, KLF4, SOX2)
<b>Differentiation Potential</b>	EB trilineage differentiation in vitro and in vivo using immunocytochemistry and immunohistochemistry	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

*Janet E. H.*

Date

26 Apr 2016

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