

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

*This product is for research only*

ECACC Catalogue No: 66540561

Cell Line Name	BIONI010-C-13	Batch / Lot Number	M001
Reprogramming Method	Episomal vector (POU5F1, SOX2, KLF4, Lin28, MYC and SHP53)		
Genetic Modification Method	TALEN		
Passage Number	P36	Cell number / vial	2x10 <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	Cells previously cultured using Rho Kinase inhibitor
Cryopreservation Medium	Cryostor		
Recommendation for thawing	Recommended thaw into 50mm cell culture plates Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a>		
Additional Comments	Typical recovery after thaw, typical growth to confluency		

Please see <https://cells.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
	Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Confirmed Pass by depositor
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	Match to donor	Allele data recorded and available upon request.
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Acceptable
<b>Phenotype</b>	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% + POU5F1 > 70% +	Pass
<b>Differentiation Potential</b>	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Pass Mesoderm : Pass Ectoderm : Pass

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Test	Assay	Acceptance Criteria	Result
Genomic Stability	G-Banding	Sex match to donor. 20 successful karyotypes recorded.	No chromosomal abnormalities detected.

Additional guidance on storage, safety and usage can be found in the [EBiSC Technical Information](#).

Approved CoA

Signature

*H. Juma*

Date

*22.06.2020*



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