

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

*This product is for research only*



ECACC Catalogue No: 66540367

Cell Line Name	BIONI010-C-5	Batch / Lot Number	M001
Reprogramming Method	Non-integrating Episomal vector (POU5F1, SOX2, MYC, Lin28, shP53 and KLF4)		
Genetic Modification	CRISPR associated (CRISPR/Cas) System		
Passage Number	29	Cell number / vial	1.07x10 <sup>6</sup>
Culture Matrix	Matrigel™ / Geltrex™	Culture Medium	Essential 8™
O <sub>2</sub> Concentration	18%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rho kinase inhibitor used at thaw
Cryopreservation Medium	Cryostor®		
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	Typical recovery after thaw, typical growth to confluency		

Please see <https://cells.ebisc.org/> for further information on Quality Control and characterisation 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>	STR / Fingerprinting	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

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



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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Test	Assay	Acceptance Criteria	Result
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass
<b>Differentiation Potential</b>	Directed differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm: Pass Mesoderm: Pass Ectoderm: Pass
<b>Genomic Stability</b>	G-Banding	Sex match to donor. 20 successful karyotypes recorded.	46, XY
<b>Genetic Modification</b>	Sanger sequencing at locus	Match to reported modification	CD33 exon 2 KO

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

Approved CoA

Signature

Date

08/08/2022

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



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