

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

*This product is for research only*

Cell Line Name	BIONI010-C-19	Batch / Lot Number	P002
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Reprogramming Method	Non-integrating episomal vector (POU5F1, SOX2, MYC, Lin28, shP53 and KLF4)		
Genetic Modification	CRISPR-associated (CRISPR/Cas) System, IKBKE knock-out by insertions in exon 6 in both alleles		
Passage Number	33	Cell number / vial	1,5x10E6
Culture Matrix	Matrigel™	Culture Medium	E8
O <sub>2</sub> Concentration	19%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rho kinase inhibitor used at thaw
Cryopreservation Medium	50% E8 / 40% serum / 10% DMSO		
Recommendation for thawing	Recommended thaw into 60mm plates 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		

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
Sterility	Inoculation for microbiological growth	Not Detected	Pass
	Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2)	Not Detected	Confirmed Pass by depositor
Cell Line Identity	STR / Fingerprinting	85% match to donor Sex match to donor	Allele data recorded and available upon request.  First profile recorded and pass for donor
Viability	Visual Assessment	Growth to confluence post-thaw	Low, slow recovery
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low differentiation levels

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	Flow Cytometry	SSEA-4 > 70% positive TRA-1-60 > 70% positive SSEA-1 < 10% positive POU5F1 > 70% positive	Pass
<b>Differentiation Potential</b>	Trilineage differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Pass Mesoderm : Pass Ectoderm : Pass
<b>Genomic Stability</b>	G-Banding (10 -20 successful karyotypes recorded)	Sex match to donor.	No chromosomal abnormalities detected
<b>Genetic Modification</b>	Sanger sequencing at locus 1q32.1	Match to reported modification	Pass

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

Approved CoA

Signature *D. J. ...*

Date 19.06.2024

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



In case of queries, please get in touch via [Contact@EBiSC.org](mailto:Contact@EBiSC.org)

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