

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

*This product is for research only*

Cell Line Name	BIONi010-C-13	Batch / Lot Number	P001
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Reprogramming Method	Non-integrating episomal vector (POU5F1, SOX2, MYC, LIN28, SHP53 and KLF4)		
Genetic Modification	A dox inducible NGN2 gene insertion into the safe site locus AAVS1 (TALEN)		
Passage Number	33	Cell number / vial	1,5x10E6
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 / at cryopreservation / at passage
Cryopreservation Medium	40% FBS* / 50% medium / 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 2 well(s) 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	85% match to donor Sex match to donor	Allele data recorded and available upon request. Sex match to donor.  Pass
<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

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Test	Assay	Acceptance Criteria	Result
<b>Differentiation Potential</b>	Directed differentiation and qPCR for endoderm markers	Up-regulation of endoderm markers	Pass for CXCR4, SOX17, FoxA2, GATA6, GSC and PITX1
<b>Genomic Stability</b>	G-Banding (10- 20 successful karyotypes recorded)	Sex match to donor.	No chromosomal abnormalities detected
<b>Genetic Modification</b>	Sequencing of target locus	Match to reported modification	R47H insertion detected

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

Approved CoA      Signature \_\_\_\_\_      Date \_\_\_\_\_