

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

Cell Line Name	BIONi010-C-15	Batch / Lot Number	M002
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Reprogramming Method	Non-integrating episomal vector (POU5F1, SOX2, MYC, Lin28, shP53 and KLF4)		
Genetic Modification	TALEN Dox inducible NGN2-GFP expression		
Passage Number	32	Cell number / vial	1,5x10E6
Culture Matrix	Matrigel™	Culture Medium	Essential 8™
O ₂ Concentration	18%	CO ₂ Concentration	5%
Passaging Method	EDTA	Additional Culture Information	Rho kinase inhibitor used at thaw
Cryopreservation Medium	Cryostor		
Recommendation for thawing	Recommended thaw into 60mm plates Refer to cell line user protocols for further guidance at www.EBiSC.org		
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
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. Match to donor
Viability	Visual Assessment	Growth to confluence post-thaw	Acceptable
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low differentiation levels

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Test	Assay	Acceptance Criteria	Result
	Flow Cytometry	SSEA-4 > 70% positive TRA-1-60 > 70% positive SSEA-1 < 10% positive POU5F1 > 70% positive	Pass
Genomic Stability	G-Banding (10 -20 successful karyotypes recorded)	Sex match to donor.	46, XY
Genetic Modification	DOX induction, qPCR and microscopy	Match to reported modification	Rapid neuronal differentiation and inducible GFP expression

Differentiation potential not performed for batch M002.

Please refer to historical data from the initial batch P001:

Differentiation Potential	Trilineage differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm: Pass Mesoderm: Pass Ectoderm: Pass
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Additional guidance on storage, safety and usage can be found in the [EBiSC Technical Information](#).

Approved CoA

Signature 

Date 14.06.2024