

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

*This product is for research only*

Cell Line Name	BIONi010-C-44	Batch / Lot Number	P001
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Reprogramming Method	Non-integrating episomal vector		
Genetic Modification	Gene knock-in Doxycycline inducible aSNCA A53T		
Passage Number	27	Cell number / vial	1-2x10E6
Culture Matrix	Matrigel™ / Geltrex™	Culture Medium	mTeSR™-1
O <sub>2</sub> Concentration	20%	CO <sub>2</sub> Concentration	5%
Passaging Method	EDTA	Additional Culture Information	N/A
Cryopreservation Medium	50% mTeSR1, 40% FBS*, 10% DMSO *Serum of Zone 1 origin		
Recommendation for thawing	Recommended thaw into 2 x 60mm plate(s) 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	Absence of viral pathogens in other cell line clone from same donor
<b>Cell Line Identity</b>	STR / Fingerprinting	85% match to donor Sex match to donor	Allele data recorded and available upon request. First profile recorded for cell line and pass for donor.
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Acceptable

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Test	Assay	Acceptance Criteria	Result
Phenotype	Continuous visual assessment of iPSC colony morphology	Recorded	Typical PSC colonies with low differentiation levels
	Flow Cytometry	SSEA-4 > 70% + SSEA-1 < 10% + POU5F1 > 70% + TRA-1-81 > 70% + SOX-2 > 70% +	Pass by depositor
Differentiation Potential	Trilineage differentiation and flow cytometry for trilineage markers	Up-regulation of germ layer markers	Endoderm: Pass by depositor Mesoderm: Pass by depositor Ectoderm: Pass by depositor
Genomic Stability	G-Banding (10- 20 successful karyotypes recorded)	Sex match to donor.	No chromosomal abnormalities detected
Genetic Modification	Sanger sequencing at locus AAVS1	Match to reported modification	NM_000345.4:c.157G>A (p.Ala53Thr)
	PCR for Neo and Puro insertion	Match to reported modification	Pass

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

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