Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66541094

Cell Line Name	STBCi268-A	Batch / Lot Number	M001
Reprogramming Method	Sendai CytoTune™ 2.0 (OCT3/4, SOX2, cMYC, and KLF4)		
Passage Number	Passage 14	Cell number / vial	$4.76x10^5$
Culture Matrix	Matrigel™	Culture Medium	mTeSR™-1
O_2 Concentration	21%	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 1 well of a 6-well plate or per $10cm^2$ Refer to cell line user protocols for further guidance at www.EBiSC.org		
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	Pass
Cell Line Identity	STR / Fingerprinting	N/A	Allele data recorded and available upon request. Match to 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
	Flow Cytometry	SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% +	Pass

In case of queries, please contact 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
Differentiation Potential	Directed differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm Pass Mesoderm : Pass Ectoderm : Pass
Genomic Stability	G-Banding	Sex match to donor. 20 successful karyotypes recorded.	70% 46,XY 30% 92,XXYY

Additional guidance on storage, safety and usage can be found in the EBiSC Technical Information.

Approved CoA **Signature** _____ **Date** 29/06/2022