Certificate of Analysis (CoA)
for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66541205

Cell Line Name	STBCi026-A-1	Batch / Lot Number	M001
Reprogramming Method	Sendai virus		
Genetic Modification	Method: CRISPR/Cas9	Target: LRRK2 knockout	
Passage Number	Passage 39	Cell number / vial	$2x10^6$
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 CS10		
Recommendation for thawing	Recommended thaw into 60mm cell culture plates Refer to cell line user protocols for further guidance at www.EBiSC.org		
Additional Comments	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	Gender match to donor	Allele data recorded and available upon request. First profile recorded.
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	Spontaneous EB differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm: Pass Mesoderm: Fail Ectoderm : Pass
Genomic Stability	G-Banding	Sex match to donor. 20 successful karyotypes recorded.	No chromosomal abnormalities detected.
Genetic Modification	Sanger sequencing at locus	Match to reported modification	disruption of exon 3 with bi-allelic out-of-frame repair

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

Approved CoA **Signature** P. Jones **Date** 21.02.2022

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