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

***This product is for research only***

ECACC Catalogue No: 66540613

| | | | |
|---|---|---|---|
| Cell Line Name | STBCi006-A-1 | Batch / Lot Number | P002 |
| Reprogramming Method | Non-integrating Sendai virus (KOS, MYC and KLF4) | | |
| Genetic Modification | CRISPR-Cas9 | | |
| Passage Number | 27 | Cell number / vial | 1-2x$10^6$ |
| 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 | 40% FBS*/ 50% medium / 10% DMSO<br>*Serum of Zone 1 origin | | |
| Recommendation for thawing | Recommended thaw into 2 wells of a 6-well plate or per 10$cm^2$<br>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 | Pass |
| **Cell Line Identity** | STR / Fingerprinting | N/A | Allele data recorded and available upon request. Gender 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 |
| | 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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| **Differentiation Potential** | Spontaneous EB differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers | Endoderm: Pass<br>Mesoderm: Pass<br>Ectoderm: Pass |
| **Genomic Stability** | G-Banding | Sex match to donor. 20 successful karyotypes recorded. | 46, XX |

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

**Approved CoA** **Signature** _____ **Date** 28 January 2020



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