

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

*This product is for research only*



ECACC Catalogue No: 66540925

|                            |  |                                |                                   |
|----------------------------|--|--------------------------------|-----------------------------------|
| Cell Line Name             | STBCi105-A   | Batch / Lot Number             | M001                              |
| Reprogramming Method       | Sendai (POU5F1, SOX2, cMYC and KLF4)   |                                |                                   |
| Passage Number             | 13   | Cell number / vial             | 1,5x10 <sup>6</sup>               |
| Culture Matrix             | Matrigel™  | Culture Medium                 | mTeSR™-1                          |
| Passaging Method           | EDTA   | Additional Culture Information | Rho kinase inhibitor used at thaw |
| Cryopreservation Medium    | Cryostor CS10  |                                |                                   |
| Recommendation for thawing | Recommended thaw into 1x60mm plate<br>Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a> |                                |                                   |

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   | Pass   |
| <b>Cell Line Identity</b>        | STR / Fingerprinting                                       | 85% match to donor<br>Sex match to donor   | Allele data recorded and available upon request.<br>First profile recorded,<br>Sex match to donor. |
| <b>Viability</b>                 | Visual Assessment  | Growth to confluence post-thaw   | Low, slow recovery   |
| <b>Phenotype</b>                 | Continuous visual assessment of iPSC colony morphology     | Recorded   | Typical PSC colonies with low differentiation levels   |
|                                  | Flow Cytometry   | SSEA-4 > 70% positive<br>TRA-1-60 > 70% positive<br>SSEA-1 < 10% positive<br>POU5F1 > 70% positive | Pass, SSEA-1 17,2%   |
| <b>Differentiation Potential</b> | Trilineage differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers  | Endoderm Pass<br>Mesoderm : Pass<br>Ectoderm : Pass  |



In case of queries, please contact [culturecollections.technical@phe.gov.uk](mailto: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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|--------------------------|---|---------------------|--|
| <b>Genomic Stability</b> | G-Banding<br>(10 -20 successful<br>karyotypes recorded) | Sex match to donor. | Balanced translocation<br>between long arms of<br>Chr.1 and Chr.18<br>Pass |

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

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



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