

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

*This product is for research only*

ECACC Catalogue No: 66540602

|                              |  |                                |                     |
|------------------------------|--|--------------------------------|---------------------|
| Cell Line Name               | CENSOi007-A  | Batch Number                   | M001                |
| Donor ID                     | L1295  |                                |                     |
| Disease Association          | Duchenne's muscular dystrophy  | Phenotype of Donor             | Affected            |
| Tissue of Origin             | Fibroblast   | Sex                            | Male                |
| Reprogramming Method         | mRNA (POU5F1, SOX2, KLF4, MYC, NANOG and LIN28)  |                                |                     |
| Passage Number               | Passage 9  | Cell number / vial             | 1.1x10 <sup>6</sup> |
| Culture Matrix               | Matrigel/Geltrex   | Culture Medium                 | mTeSR™1             |
| O <sub>2</sub> Concentration | 21%  | CO <sub>2</sub> Concentration  | 5%                  |
| Passaging Method             | EDTA   | Additional Culture Information | N/A                 |
| 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 10cm <sup>2</sup><br>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  |                                |                     |
| Associated Publications      | N/A  |                                |                     |

Please see [www.EBiSC.org](http://www.EBiSC.org) for further information on Quality Control 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   |
|                           | qPCR for Mycoplasma                                    | Not Detected                   | Pass   |
|                           | Virology (HBV, HCV, HIV1, HIV2)                        | Not Detected                   | Pass   |
| <b>Cell Line Identity</b> | Short Tandem Repeat analysis using PCR                 | N/A                            | Allele data recorded and available upon request.<br>Match to donor |
| <b>Viability</b>          | Visual Assessment                                      | Growth to confluence post-thaw | Acceptable   |
| <b>Phenotype</b>          | Continuous visual assessment of iPSC colony morphology | Recorded                       | Obvious iPSC colonies with medium differentiation levels.          |

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| Test                             | Assay  | Acceptance Criteria  | Result   |
|----------------------------------|--|--|--|
| <b>Phenotype</b>                 | Flow Cytometry   | SSEA-4 > 70% +<br>TRA-1-60 > 70% +<br>SSEA-1 < 10% +<br>POU5F1 > 70% + | Pass   |
| <b>Differentiation Potential</b> | Spontaneous EB differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers                                    | Endoderm: Detected<br>Mesoderm: Detected<br>Ectoderm: Detected |

Additional cell line characteristics have been determined by original reprogramming centres and have not been independently verified by EBISC. Historical cell line data displayed here is accurate according to data provided by depositors on 30-JUN-2017

| Test             | Assay          | Result  |
|------------------|----------------|---|
| <b>Karyotype</b> | KaryoLite BoBs | No autosomal or sex chromosome aneuploidies were detected |
|                  | G-Banding      | 19/20 diploid male karyotype 46,XY<br>1/20 44,XY,-18-22   |

| The following guidance can be found in the Instructions for Use |                                       |
|---|---------------------------------------|
| <b>Intended use</b>   | <b>Expiry Date</b>                    |
| <b>Product Format</b>   | <b>Recommended storage conditions</b> |
| <b>Volume</b>   | <b>Hazardous Information</b>          |

Approved CoA

Signature

*Jane Leber*

Date

*04 July 2017*

[www.EBiSC.org](http://www.EBiSC.org)



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