

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

*This product is for research only*

ECACC Catalogue No: 66540442

|                              |  |                                |                     |
|------------------------------|--|--------------------------------|---------------------|
| Cell Line Name               | UNEWi023-B   | Batch Number                   | P001                |
| Donor ID                     | F343   |                                |                     |
| Disease Association          | Age-related Macular Degeneration   | Phenotype of Donor             | Unaffected          |
| Tissue of Origin             | Dermal Fibroblast  | Sex                            | Female              |
| Reprogramming Method         | Non-integrating Sendai virus (POU5F1, SOX2, KLF4, MYC)   |                                |                     |
| Passage Number               | Passage 9  | Cell number / vial             | 2 x 10 <sup>6</sup> |
| Culture Matrix               | Geltrex / Matrigel   | Culture Medium                 | mTeSR™ 1            |
| O <sub>2</sub> Concentration | 20%  | 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      | PubMed ID: 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. 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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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 23-FEB-2017

| Test                                      | Assay  | Result  |
|---|--|---|
| <b>Genetic Defect</b>                     | Sequencing of CFH and HTRA1 genes                | Medium risk   |
| <b>Phenotype</b>                          | Flow Cytometry                                   | TRA-1-60: 97.8%; NANOG: 95.9%;<br>SSEA-1: 1.5%; SSEA-4: 99.8%     |
| <b>Karyology</b>                          | CytoSNP  | No clinically significant imbalance was detected                  |
| <b>Cell Line Identity</b>                 | Short Tandem Repeat analysis using PCR           | Match to donor  |
| <b>Clearance of Reprogramming Factors</b> | PCR for Sendai virus                             | Not detected  |
| <b>Differentiation Potential</b>          | Spontaneous differentiation to three germ layers | Endoderm : Detected<br>Mesoderm : Detected<br>Ectoderm : Detected |

| 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

Date

02 mar 2017



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